

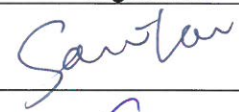
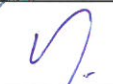
Environmental Protection Department

Contract No. HY/2012/06

**Widening of Fanling Highway
- Tai Hang to Wo Hop Shek
Interchange**

**Quarterly EM&A Report
for May 2017 to July 2017**

[8/2017]

	Name	Signature
Prepared & Checked:	Sammi Lam	
Reviewed & Approved:	Y W Fung	

Version:	Rev. 0	Date: 15 Aug 2017
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Disclaimer

This report is prepared for Environmental Protection Department and is given for its sole benefit in relation to and pursuant to Contract No. HY/2012/06 and may not be disclosed to, quoted to or relied upon by any person other than Environmental Protection Department without our prior written consent. No person (other than Environmental Protection Department) into whose possession a copy of this report comes may rely on this report without our express written consent and Environmental Protection Department may not rely on it for any purpose other than as described above.

AECOM Asia Co. Ltd.
15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong
Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com

Hyder-Arup-Black & Veatch Joint Venture
c/o Arcadis
20/F, AXA Tower, Landmark East,
100 How Ming Street,
Kwun Tong, Hong Kong
Attn: Mr. James Penny

Your Reference

EM&A for Widening of Tolo Highway/Fanling Highway between Island House Interchange and Fanling Stage 2 (between Tai Hang to Wo Hop Shek Interchange)

Our Reference

JFP/EC/ST/p/I/T329380/22
.05/L-0181

Environmental Permit No. EP-324/2008/E

Quarterly EM&A Summary Report for May 2017 to July 2017 for the portion of Stage 2 works under Contract No. HY/2012/06

20/F AIA Kowloon Tower
Landmark East
100 How Ming Street
Kwun Tong
Kowloon
Hong Kong


15 August 2017

By Fax (2805 5028) & Hand

T +852 2828 5757
F +852 2827 1823
mottmac.hk

We refer to the revised Quarterly EM&A Summary Report for May 2017 to July 2017 for the captioned Project received on 10 August 2017 submitted by ET via email. We confirm we have no comment.

Yours faithfully
for MOTT MACDONALD HONG KONG LIMITED



Steven Tang
Independent Environmental Checker

c.c.
HyD
AECOM

Mr. Ricky Yeung
Mr. Y W Fung

By Fax (2714 5198)
By Fax (3922 9797)

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	3
1 INTRODUCTION	6
1.1 Project Organization and Contacts of Key Management	6
1.2 Programme	6
1.3 Summary of Construction Works	6
2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS	8
2.1 Monitoring Parameters	8
2.2 Monitoring Locations	8
2.3 Environmental Quality Performance Limits (Action/Limit Levels)	8
2.4 Environmental Mitigation Measures	8
3 AIR QUALITY MONITORING	8
4 NOISE MONITORING	9
5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS	9
6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT	10
7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS	11
8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS	12
8.1 Comments	12
8.2 Recommendations	14
8.3 Conclusions	14

List of Tables

Table 1.1	Contact Information of Key Personnel
Table 3.1	Summary of 1-hour TSP Monitoring Results in the Reporting Period
Table 3.2	Summary of 24-hour TSP Monitoring Results in the Reporting Period
Table 3.3	Summary of the Number of Exceedances for 1-hr & 24-hr TSP Monitoring
Table 4.1	Summary of Construction Noise Monitoring Results in the Reporting Period
Table 4.2	Summary of the Number of Monitoring Exceedances for Construction Noise
Table 5.1	Summary of Waste Flow Table for Contract No. HY/2012/06
Table 5.2	Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Figures

Figure 1.1	General Project Layout Plan of Contract No. HY/2012/06
Figure 1.2	General Project Layout Plan of Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)
Figure 1.3a-b	Locations of Monitoring Station

List of Appendices

Appendix A	Project Organization Structure
Appendix B	Construction Programme
Appendix C	Implementation Schedule of Environmental Mitigation Measures (EMIS)
Appendix D	Summary of Action and Limit Levels
Appendix E	Impact Air Quality Monitoring Results and their Graphical Presentation
Appendix F	Meteorological Data
Appendix G	Impact Daytime Construction Noise Monitoring Results and their Graphical Presentation

Appendix H Statistics on Complaints, Notifications of Summons and Successful Prosecutions

EXECUTIVE SUMMARY

The proposed widening of Tolo Highway and Fanling Highway between Island House Interchange and Fanling (the Project) is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). An Environmental Impact Assessment (EIA) Report (the approved EIA Report) together with an Environmental Monitoring and Audit (EM&A) Manual (the approved EM&A Manual) were completed and approved under the EIAO on 14 July 2000 (Register Number: EIA-043/2000).

The objective of the Project “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” is to widen Tolo Highway and Fanling Highway to dual 4-lane carriageway in order to alleviate the current traffic congestion problems and to cope with the increasing transport demands to and from the urban areas and also cross boundary traffic.

The construction works for this Project will be delivered in 2 stages i.e. Stage 1 (between Island House Interchange and Tai Hang) and Stage 2 (between Tai Hang and Wo Hop Shek Interchange). Stage 2 would be implemented under three works contracts. Contract No. HY2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” and the entrusted portion to CEDD under Contract No. CV/2012/09 “Liantang/Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3”. In addition, Contract No. “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” was carried out within the site boundary of Contract No. 02/HY/2015. This report focuses on Contract No. HY/2012/06 “Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange” in Stage 2 of the Project and “Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound” under Works Order Nos. CB128520-5 and CB128519-0 in Contract No. 02/HY/2015 “Highway Department Term Contract (Management and Maintenance of Roads in Tai Po and North District excluding High Speed Roads 2016-2022)”.

Pursuant to the EP (EP-324/2008/E) Condition 2.7, the Capture Survey Trip Report for Ma Wat River Northern Meander (Version 2) for the Project was submitted on 24 December 2013 by the Environmental Team (ET) and verified by the Independent Environmental Checker (IEC) on 6 January 2014.

The construction phase of the Contract under the EP and the Environmental Monitoring and Audit (EM&A) programme of the contract commenced on 21 November 2013. The impact environmental monitoring and audit includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 May 2017 and 31 July 2017. As informed by the Contractor, construction activities of Contract No. HY/12012/06 in the reporting period were as follows:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction
- Noise barrier
- Excavation
- Backfilling
- Drainage
- House construction
- Footbridge demolition
- Bridge construction
- Piling

As informed by the Contractor, construction activities of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 in the reporting period were:

- ELS
- Construction of footing

- Construction of stem wall
- Backfilling
- Posts of Cover Walkway
- Plate Load Test

Reporting Change

There was no reporting change required in the reporting period.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level was recorded for 1-hour and 24-hour TSP monitoring in the reporting period.

Breaches of Action and Limit Levels for Noise

No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

One (1) noise-related complaint was received on 23 May 2017 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for June 2017.

No notification of summons or successful prosecution was received in the reporting period.

Future Key Issues

Key issues to be considered in the coming month include:

- Properly store and label oils and chemicals on site;
- Chemical, chemical waste and waste management;
- Collection of construction waste should be carried out regularly;
- Properly maintain all drainage facilities and wheel washing facilities on site;
- Exposed slopes should be covered up properly if no temporary work will be conducted;
- Quieter powered mechanical equipment should be used;
- Suppress dust generated from excavation activities and haul road traffic; and
- Tree protective measures for all retained trees should be well maintained.

1 INTRODUCTION

1.1 Project Organization and Contacts of Key Management

1.1.1 The project organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
ER (Hyder-Arup-Black & Veatch Joint Venture)	Chief Resident Engineer	Edwin Chung	6115 0818	2638 0950
IEC (Mott MacDonald Hong Kong Limited)	Independent Environmental Checker	Steven Tang	2828 5920	2827 1823
Contractor of [HY/2012/06] (China State Construction Engineering (Hong Kong) Limited)	Environmental Officer	Michael Tsang	9277 4956	2672 2501
		C C Chow	9679 6315	2672 2501
Contractor of [02/HY/2015] (Chiu Hing Construction & Transportation Company Limited)	Safety Officer	Marty Tai	9106 5318	-
ET (AECOM Asia Company Limited)	ET Leader	Y W Fung	3922 9393	3922 9797

1.2 Programme

1.2.1 The Construction Programme is shown in Appendix B.

1.3 Summary of Construction Works

1.3.1 Details of the construction works of Contract No. HY/2012/06 carried out by the Contractor in this reporting period are listed below:

- Site clearance
- Ground investigation
- Pipe laying
- Retaining wall construction

- Noise barrier
- Excavation
- Backfilling
- Drainage
- House construction
- Footbridge demolition
- Bridge construction
- Piling

Details of the construction works of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015 carried out by the Contractor in this reporting period are listed below:

- ELS
- Construction of footing
- Construction of stem wall
- Backfilling
- Posts of Cover Walkway
- Plate Load Test

1.3.2 The general layout plan of the Project site of Contract No. HY/2012/06 and Works Order Nos. CB128520-5 and CB128519-0 under 02/HY/2015 showing the contract areas are shown in Figure 1.1 and Figure 1.2 respectively.

1.3.3 The environmental mitigation measures implementation schedule are presented in Appendix C.

2 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

2.1 Monitoring Parameters

- 2.1.1 The updated EM&A Manual has designated 1 air quality monitoring station and 2 noise monitoring stations to monitor environmental impacts on air quality and noise due to Stage 2 of the Project.
- 2.1.2 The updated EM&A Manual also requires environmental site inspections for air quality, noise, water quality, chemical, waste management, ecology and landscape and visual impacts.

2.2 Monitoring Locations

- 2.2.1 For air quality monitoring, the monitoring station was set up at Fanling Government Secondary School, in accordance with updated EM&A Manual. The location is shown in Figure 1.3a.
- 2.2.2 For noise monitoring, the monitoring stations M2 and M3 were set up at West Tai Wo and Fanling Government Secondary School respectively in accordance with updated EM&A Manual. Figure 1.3a-b shows the locations of the monitoring stations.

2.3 Environmental Quality Performance Limits (Action/Limit Levels)

- 2.3.1 The environmental quality performance limits (i.e. Action/Limit Levels) of air quality monitoring were derived from the baseline air quality monitoring results at the monitoring station (AM2); while the environmental quality performance limits of noise monitoring were defined in the EM&A Manual.
- 2.3.2 The environmental quality performance limits are given in Appendix D.

2.4 Environmental Mitigation Measures

- 2.4.1 Relevant environmental mitigation measures were stipulated in the Particular Specification and EP for the Contractor to adopt. A list of environmental mitigation measures and their implementation statuses are given in Appendix C.

3 AIR QUALITY MONITORING

- 3.1.1 In accordance with the updated EM&A Manual, baseline 1-hour and 24-hour TSP levels at one air quality monitoring station was established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days.
- 3.1.2 The weather was mostly sunny, occasionally fine, cloudy and rainy in the reporting quarter. Weather information including the wind speed and wind direction is annexed in Appendix F. The information was obtained from the Hong Kong Observatory Tai Po and Tai Mei Tuk Automatic Weather Stations.
- 3.1.3 The monitoring results for 1-hour TSP and 24-hour TSP monitoring are summarized in Tables 3.1 and 3.2 respectively. Detailed impact air quality monitoring results are presented in Appendix E.

Table 3.1 Summary of 1-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	70.7	58.8 – 77.6	317.8	500

Table 3.2 Summary of 24-hour TSP Monitoring Results in the Reporting Period

Location	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AM2 (Fanling Government Secondary School)	24.3	8.6 – 86.2	200.7	260

- 3.1.4 The major dust sources in the reporting period included construction activities from Stage 2 of the Project, as well as nearby traffic emissions.
- 3.1.5 All 1-hour and 24-hour TSP results were below the Action and Limit Level in the reporting quarter.
- 3.1.6 Detailed impact air quality monitoring results are presented in Appendix E.

4 NOISE MONITORING

- 4.1.1 In accordance with the EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract.
- 4.1.2 The monitoring results for construction noise are summarized in Table 4.1 and the monitoring data are provided in Appendix G.

Table 4.1 Summary of Construction Noise Monitoring Results in the Reporting Period

	Average (dB(A)) L_{eq} (30 mins)	Range (dB(A)) L_{eq} (30 mins)	Limit Level (dB(A)) L_{eq} (30 mins)
M2* (West Tai Wo)	69.3	67.7 – 70.2	75
M3# (Fanling Government Secondary School)	63.3	59.7 – 65.1	65/70

*+3dB(A) Façade correction included

Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

- 4.1.3 The major noise sources during the noise monitoring included nearby road traffic noise.
- 4.1.4 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 4.1.5 The graphical plots of the trends of the monitoring results are provided in Appendix G.

5 ADVICE ON THE SOLID AND LIQUID WASTE MANAGEMENT STATUS

- 5.1.1 As advised by the Contractor of Contract No. HY/2012/06, 11,240 m³ of inert C&D material was generated in the reporting period (401m³ was broken concrete, 2,398m³ was reused in the Contract, 2,990m³ was reused in other Projects and 5,451m³ was disposed as public fill to Tuen Mun 38). 335 kg of general refuse was disposed of at NENT landfill. 27,835 kg of metals, 193 kg of paper and 884 kg of plastics were collected by recycling Contractors, and 0 kg of chemical wastes were collected by licensed Contractors in the reporting period.
- 5.1.2 The actual amounts of different types of waste generated by the activities of the Project in the reporting quarter are summarized in Table 5.1.

Table 5.1 Summary of Waste Flow Table for Contract No. HY/2012/06

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	5,451 m ³	Tuen Mun 38
Broken concrete	401 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	335 m ³	NENT Landfill
Paper/cardboard packaging	193 kg	Recycling Facilities
Plastics	884 kg	Recycling Facilities
Metals	27,835 kg	Recycling Facilities
C&D materials reused on site	2,398 m ³	Site Area
C&D materials reused in other projects	2,990 m ³	Other projects
Chemical wastes	0 kg	Licensed Contractors

5.1.3 As advised by the Contractor of Works Order Nos. CB128520-5 and CB128519-0 under Contract No. 02/HY/2015, 407 m³ of inert C&D material was generated in the reporting month (404 m³ disposed of as public fill to Tuen Mun 38, 0 m³ of inert C&D materials was reused on site, 0 m³ of inert C&D materials was reused in other projects and 3 m³ was broken concrete). For C&D wastes, 0 m³ of general refuse was disposed of at NENT landfill, 3 kg of paper/cardboard packaging, 3 kg of plastics and 0 kg of metals were collected by recycling Contractors in the reporting period.

5.1.4 The actual amounts of different types of waste generated by the activities of the Project in the reporting period are shown in Table 5.2.

Table 5.2 Summary of Waste Flow Table for Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Waste Type	Actual Amount	Disposal/Reuse Locations
Inert C&D materials disposed as public fill	404 m ³	Tuen Mun 38
Broken concrete	3 m ³	Tuen Mun 38
C&D wastes disposed as general refuse	0 m ³	NENT Landfill
Paper/cardboard packaging	3 kg	Recycling Facilities
Plastics	3 kg	Recycling Facilities
Metals	0 kg	Recycling Facilities
C&D materials reused on site	0 m ³	Site Area
C&D materials reused in other projects	0 m ³	Other projects

6 SUMMARY OF EXCEEDANCES OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

6.1.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.

6.1.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.

7 SUMMARY OF COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 7.1.1 One (1) noise-related complaint was received on 23 May 2017 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for June 2017.
- 7.1.2 No notification of summons or successful prosecution was received in the reporting period.
- 7.1.3 The statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix H.
- 7.1.4 A 24-hour complaint hotline at 6628 8366 has been established for the Project. The hotline number is displayed at the site entrances, fencings and project signboards, as well as printed on publications such as newsletters for the public.

8 COMMENTS, RECOMMENDATIONS AND CONCLUSIONS

8.1 Comments

8.1.1 According to the environmental site inspections performed in the reporting period, the following comments are made to the Contractor for precautionary and rectification purposes:

Contract No. HY/2012/06

Air Quality Impact

- The Contractor should cover the exposed stockpiles entirely by impervious sheeting to avoid potential windblown dust emission.
- The Contractor should spray the open site area with adequate water to prevent potential windblown dust emission.
- The Contractor should clean up the mud trail and ensure the wheel washing facility is operated properly.
- The Contractor should ensure valid labels are provided to all NRMM before operation.
- The Contractor should provide sufficient measures to keep the road clear of dusty materials.
- The Contractor should spray the open site area with adequate water to avoid windblown dust emission.

Construction Noise Impact

- Nil.

Water Quality Impact

- The Contractor should remove the muddy water and implement effective measures to prevent sand from being flushed to public road.
- The Contractor was advised to properly cover it with impervious sheeting to prevent runoff from the exposed working area to the drainage.
- The Contractor was advised to implement measures to intercept suspended solids in runoff from the exposed slope and prevent muddy water being flushed from the site to public road.
- The Contractor should remove the sandy materials and implement measures to prevent surface runoff of site and silt from entering the drainage system.
- The Contractor was advised to properly protect the existing drainage to prevent muddy water / material entering it.
- The Contractor was reminded to provide bunding or protection to retain surface runoff.

Chemical and Waste Management

- The Contractor should remove the wastes and maintain the site clean and tidy.
- The Contractor should provide drip tray to avoid potential leakage.
- The Contractor should clean up the oil and provide sufficient measures to prevent chemical leakage.
- The Contractor was advised to improve the housekeeping condition and keep the site clean and tidy.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.
- The Contractor should remove the retained water to avoid mosquito breeding.

Contract No. 02/HY/2015 (Works Order Nos. CB128520-5 and CB128519-0)

Air Quality Impact

- The Contractor should clean up the mud trail for dust suppression, ensure the wheel washing facility is operated properly and vehicles are wheel-washed properly before leaving the site.
- The Contractor should cover the exposed stockpile entirely with impervious sheeting to prevent windblown dust emission.
- The Contractor should ensure proper labels are provided for all NRMM before operation.
- The Contractor should provide sufficient measures to keep the public access road clear of dusty material.

Construction Noise Impact

- Nil.

Water Quality Impact

- Nil.

Chemical and Waste Management

- Nil.

Landscape and Visual Impact

- Nil.

Miscellaneous

- The Contractor should remove the stagnant water or apply larvicidal oil to prevent mosquito breeding.

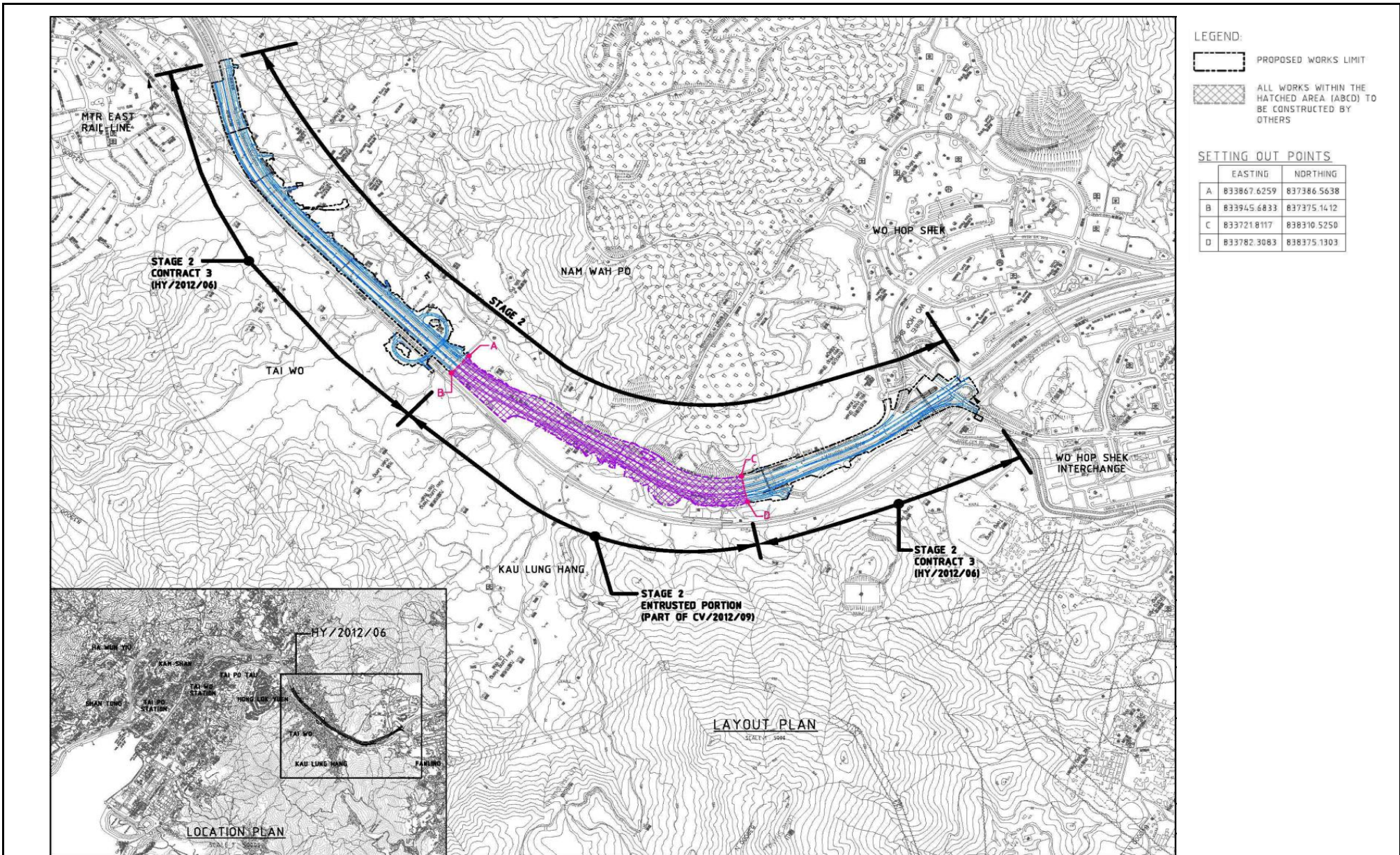
8.2 Recommendations

- 8.2.1 The impact air quality and noise monitoring programme ensures that any deterioration in environmental condition is readily detected and timely actions are taken to rectify any non-compliances. Assessment and analysis of monitoring results collected demonstrated the environmental acceptability of the Project. The weekly environmental site inspections ensure that all the environmental mitigation measures recommended in the ERR are effectively implemented.
- 8.2.2 The EM&A programme effectively monitored the environmental impacts from the construction activities and no particular recommendations were advised for the improvement of the programme.

8.3 Conclusions

- 8.3.1 All 1-hour and 24-hour TSP monitoring results complied with the Action / Limit Levels in the reporting quarter.
- 8.3.2 No Action or Limit Level exceedance of construction noise was recorded in the reporting period. No noise complaints related to 0700 – 1900 hours on normal weekdays was received and followed by the Environmental Team in the reporting period.
- 8.3.3 One (1) noise-related complaint was received on 23 May 2017 and followed up by the Environmental Team. The full complaint investigation report is annexed in Appendix M of the Monthly EM&A Report for June 2017.
- 8.3.4 No notification of summons or successful prosecution was received in the reporting period.

FIGURES



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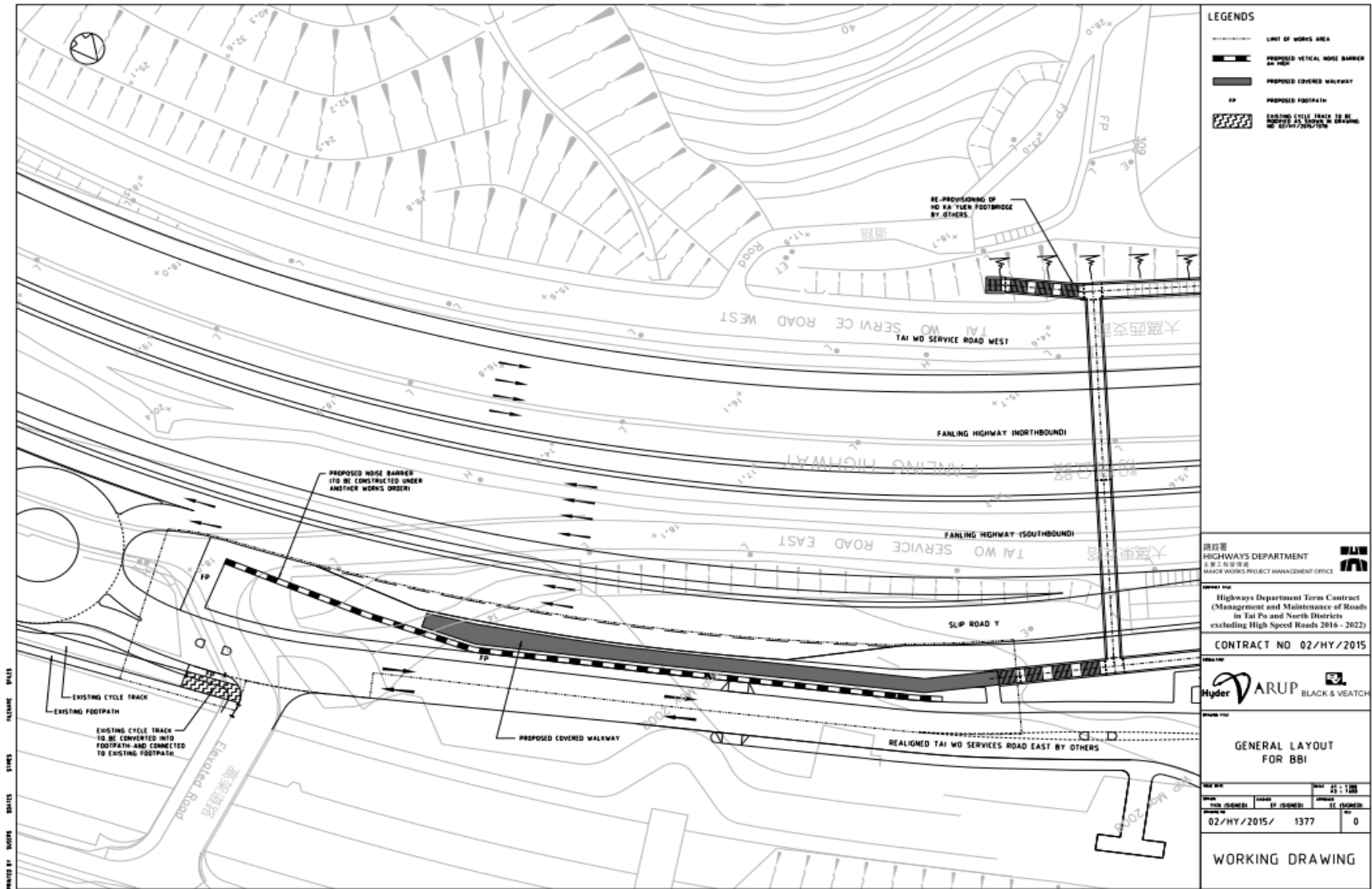
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Layout Plan

Date: Dec 2013

Figure 1.1



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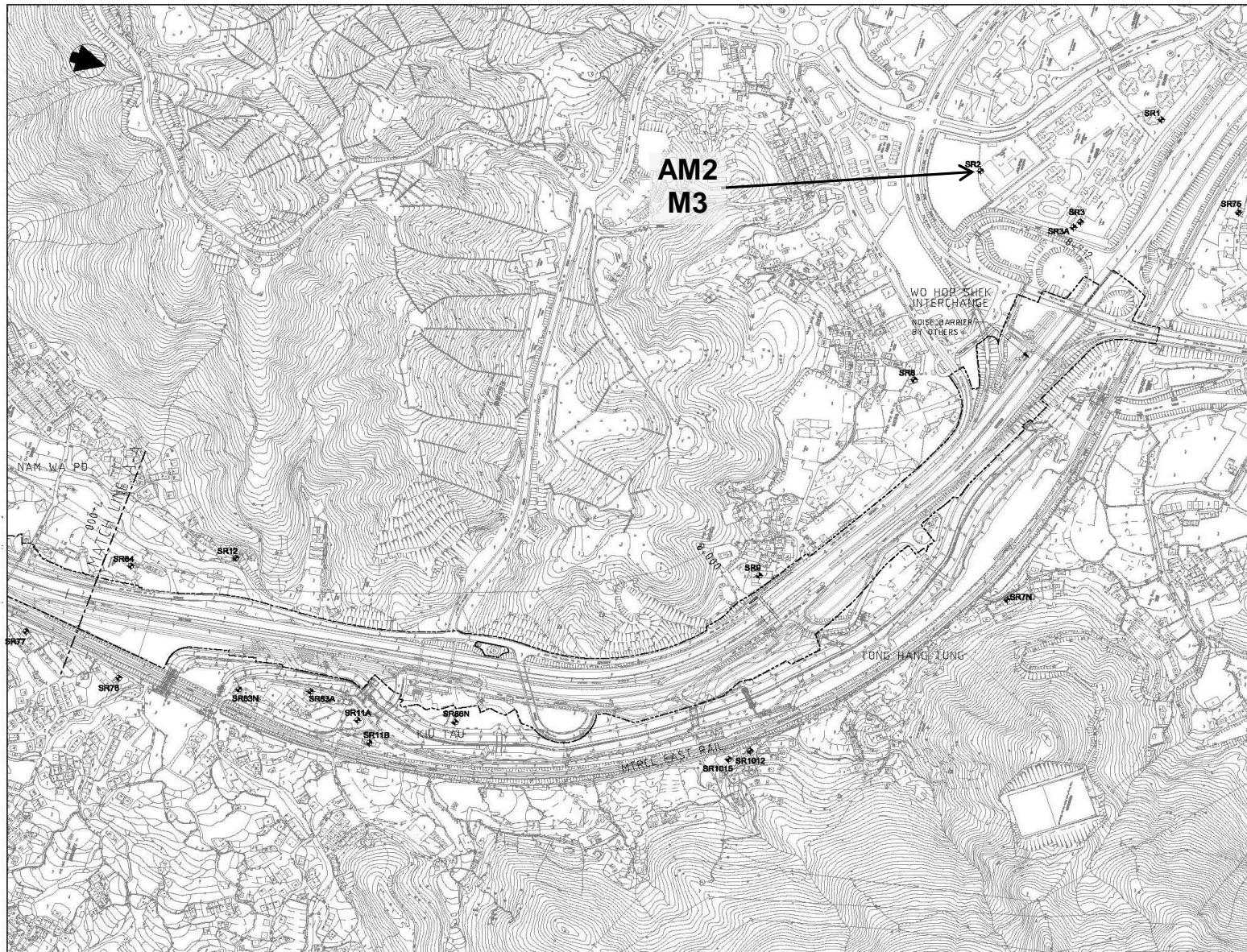
CONTRACT NO. 02/HY/2015
 PROVISION OF BUS-BUS INTERCHANGE ON FANLING HIGHWAY KOWLOON BOUND



Layout Plan

Date: Apr 2017

Figure 1.2



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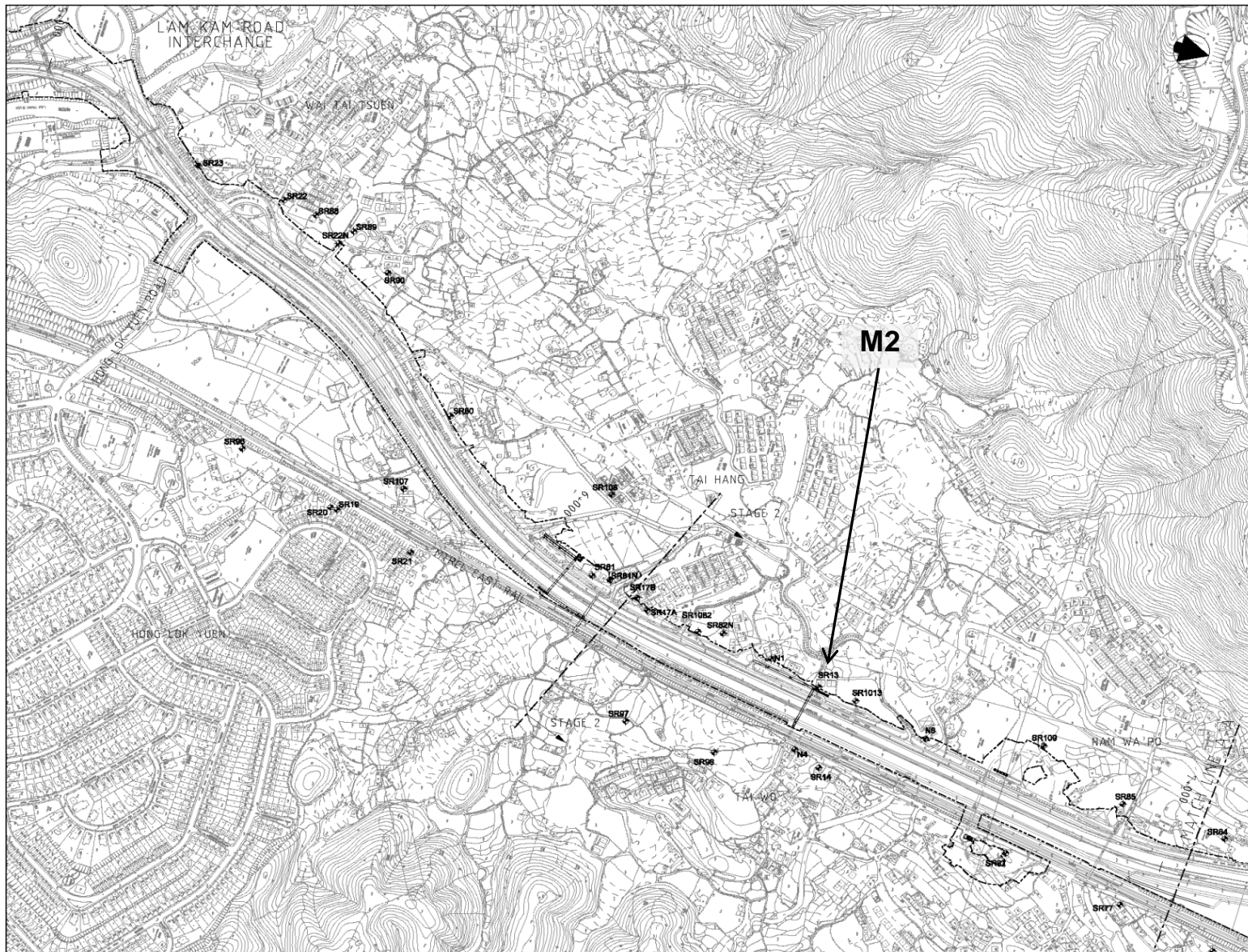
CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Locations of Monitoring Station

Date: Dec 2013

Figure 1.3a



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WIDENING OF FANLING HIGHWAY
- TAI HANG TO WO HOP SHEK INTERCHANGE

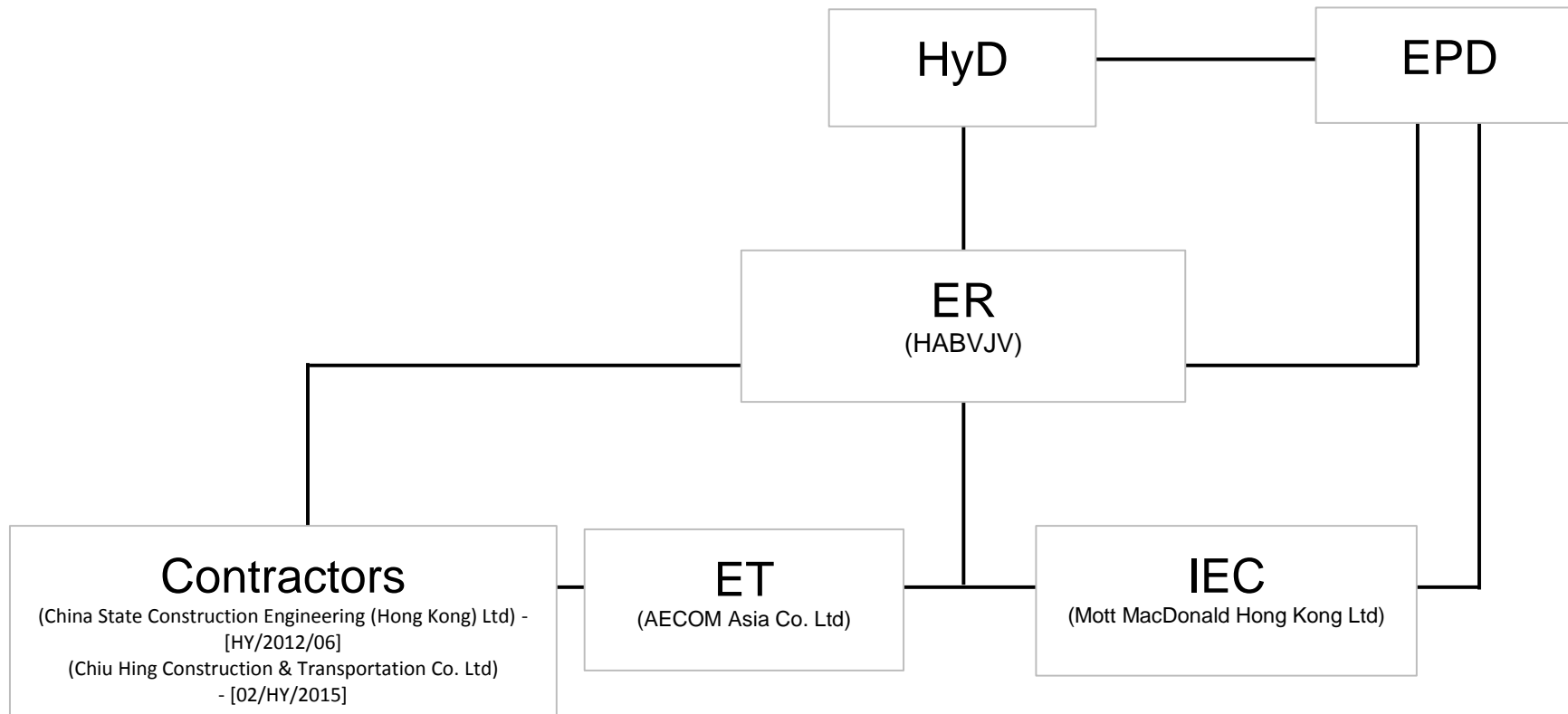


Locations of Monitoring Station

Date: Dec 2013

Figure 1.3b

**APPENDIX A
PROJECT ORGANIZATION STRUCTURE**



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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Project Organization Structure

**APPENDIX B
CONSTRUCTION PROGRAMMES**

**CONSTRUCTION PROGRAMME OF
MAY 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								May	Jun	Jul	Aug
Contract Condition											
General											
Contract Condition											
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0%	0	0		31-Jul-17*	35				31-Jul-17* ◆ KD-13 (1309d)
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-May-17		1146				◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-May-17*		-870				◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-May-17*		-672				◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-May-17*		-537				◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)											
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
Underground Utility Works											
ADVZ20180	Utility cable changeover period (NWT)	72.46%	57	207	21-Dec-16 A	15-Jul-17	184				
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	72.6%	57	208	20-Dec-16 A	15-Jul-17	184				
ZONE 2 (Ch. 5880 to 6930)											
General											
DRM Proposal											
DRM Proposal											
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	74.39%	73	285	20-Oct-16 A	31-Jul-17*	0				
ADVZ20225	Divert Existing TWSR-W to New TWSR-W	0%	5	5	20-May-17	25-May-17	143				
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	32%	68	100	08-Apr-17 A	09-Aug-17	0				
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	0%	75	75	10-Aug-17	08-Nov-17	172				
ADVZ20250	FLHY N/B Lane 4 ready to Start	0%	0	0	10-Aug-17		0				◆ FLHY N
Noise Barrier Along TWSR-West and Laying New Utilities											
NB54A (Ch.6290-6350)-TWSR West Side											
Noise Barrier Works											
NB00790	NB54A - NB post & panel installation	0%	5	5	20-May-17	25-May-17	574				
Noise Barrier Along Fanling Highway N/B											
Site Clearance & Demolition of Existing Structure											
General											
ADVZ20160	TTA for NB works	90%	6	60	20-Apr-17 A	26-May-17	192				
NB60 (Ch.6450-6920)-FH N/B Side											
Noise Barrier Works											
NB01753	NB60 (0-15m)(NB60/1, 0.19m -10nos) Piling	0%	16	16	22-Jun-17	11-Jul-17	42				
NB01755	NB60-1 (0-15m) - Sheet piling & Excavation	0%	6	6	20-Jul-17	26-Jul-17	35				
NB01757	NB60-1 (0-15m) - Footing & Wall Structure	0%	24	24	27-Jul-17	23-Aug-17	35				
Bridge Construction											
New Tai Hang Footbridge											
General											
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	55.49%	77	173	20-Jul-16 A	19-Aug-17	231				
TWSR-West/ FL Highway N/B Side Section											
THBF0620	Finishes Work	0%	113	60	27-Feb-17 A	30-Sep-17	285				
Crossing Fanling Highway Section											
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	18	18	22-Jun-17	13-Jul-17	149				
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	90	90	14-Jul-17	30-Oct-17	149				
TWSR-East FL Highway S/B Side Section											
THBF0470	THAB1 - pile cap & abutment wall	44.95%	60	109	21-Nov-16 A	31-Jul-17	852				
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	01-Aug-17	23-Aug-17	852				
THBF0520	THP2 - Pile cap, Pier and Pier Head	0%	47	45	20-Mar-17 A	15-Jul-17	237				
THBF0780	Modified existing column head of existing footbridge	0%	101	101	20-May-17	16-Sep-17	177				
Lift at TWSR-W Side											
L1520	Lift shaft & roof	73.68%	60	228	16-Jul-16 A	31-Jul-17	218				
L1530	Structural Laminated glass wall installation	0%	30	30	01-Aug-17	04-Sep-17	260				
L1540	RC Platform connect to bridge	0%	30	30	01-Aug-17	04-Sep-17	218				
L1600	CLP Power available (by CLP)	78.35%	92	425	21-Jun-16 A	19-Aug-17	424				
Lift at FLHY S/B											
L1370	Lift shaft & roof	78.57%	33	154	20-Sep-16 A	28-Jun-17	151				
L1380	Structural Laminated glass wall installation	0%	30	30	29-Jun-17	03-Aug-17	181				
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	29-Jun-17	03-Aug-17	151				
L1400	Roof cover for RC Platform	0%	30	30	04-Aug-17	07-Sep-17	151				
L1450	CLP Power available (by CLP)	71.06%	123	425	21-Jun-16 A	19-Sep-17	263				
New Tai Wo Footbridge											
General											
TWFB1090	Steel Bridge prefabrication (TWFB)	65.59%	64	186	15-Aug-16 A	04-Aug-17	365				
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	05-Aug-17		365				◆ Steel Bridge
TWSR-West/ FL Highway N/B Side Section											
TWFB1390	Finishes Work	0%	30	30	20-May-17	24-Jun-17	535				
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		24-Jun-17	535				24-Jun-17 ◆ Bridge Structure complete (TWFB-TWSR-W side)

	Project ID: WP Rev 04 (1705)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-May-17)		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
Page 1 of 5				30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3		
				08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								May	Jun	Jul	Aug	
Crossing Fanling Highway Section												
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	0%	18	18	01-Jun-17*	21-Jun-17	0					
TWFB1430	TWP2 - Pile Test	0%	28	28	22-Jun-17	19-Jul-17	41					
TWFB1440	TWP2 - Pile cap	0%	30	30	20-Jul-17	23-Aug-17	68					
Lift at TWSR-W Side												
L1670	Lift shaft & roof	84.78%	35	230	21-Jun-16 A	30-Jun-17	350					
L1680	Structural Laminated glass wall installation	0%	30	30	03-Jul-17	05-Aug-17	393					
L1690	RC Link slab connect to bridge	0%	30	30	03-Jul-17	05-Aug-17	350					
L1700	Metal cover on RC platform	0%	30	30	07-Aug-17	09-Sep-17	350					
L1730	Lift submission & ordering period	79.25%	61	294	02-Jul-16 A	01-Aug-17	397					
L1780	CLP Power available (by CLP)	61.52%	152	395	20-Aug-16 A	18-Oct-17	496					
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1072	Piling work for NB60 bay 1 (0.19m -10no)	0%	16	16	22-Jun-17	11-Jul-17	42					
TWFB-T1074	NB60 bay 1 footing	0%	30	30	20-Jul-17	23-Aug-17	35					
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	90	90	10-Aug-17	25-Nov-17	38					
Noise Barrier Along Fanling Highway S/B												
NB46A (Ch.5880-5935)-FH S/B Side												
Noise Barrier Works												
NB03300	DN600 water connection by WSD	0%	1	1	23-May-17*	23-May-17	0					
NB03310	DN600 watermain diversion complete	0%	0	0		23-May-17	440					
23-May-17 ◆ DN600 watermain diversion complete												
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02300	NB51 ID1-3 (0-25m) - NB production	0%	45	45	20-May-17	03-Jul-17	661					
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB02330	NB51(25-118m) - Footing & Wall Structure	50%	45	90	13-Mar-17 A	12-Mar-18	150					
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02370	NB52 - Sheet piling & Excavation	75.93%	26	108	04-Nov-16 A	20-Jun-17	498					
NB02380	NB52 - Footing & Wall Structure	58.33%	50	120	18-Nov-16 A	19-Jul-17	474					
NB02390	NB52- backfilling	0%	50	50	20-Jul-17	15-Sep-17	474					
NB02400	NB52 - NB production	0%	45	45	20-Jul-17	02-Sep-17	600					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-May-17	20-Jun-17	380					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	21-Jun-17	21-Jul-17	427					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	22-Jul-17	29-Sep-17	427					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	05-Jul-17	15-Jul-17	369					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	17-Jul-17	16-Aug-17	369					
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	17-Aug-17	09-Sep-17	369					
NB02590	NB53 (125-180m) - NB production	95.17%	14	290	20-May-16 A	02-Jun-17	692					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	03-Jun-17	08-Jun-17	563					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	96.51%	24	688	07-Nov-14 A	17-Jun-17	369					
NB02650	NB55- backfilling	0%	50	50	19-Jun-17	16-Aug-17	369					
NB02660	NB55 - NB production	90.95%	40	442	15-Jan-16 A	28-Jun-17	666					
NB02670	NB55 - NB post & panel installation	0%	5	5	17-Aug-17	22-Aug-17	500					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	96.32%	14	380	20-Feb-16 A	02-Jun-17	692					
NB02740	NB56 - NB post & panel installation	0%	5	5	03-Jun-17	08-Jun-17	563					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-May-17	10-Jun-17	38					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-Jun-17	09-Aug-17	38					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	10-Aug-17	09-Oct-17	461					
NB02800	NB61 (0-50m) - NB production	0%	45	45	10-Aug-17	23-Sep-17	579					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-May-17	03-Jul-17	661					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	89.05%	45	411	20-Feb-16 A	03-Jul-17	661					
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	90.61%	57	607	01-Apr-15 A	27-Jul-17	482					
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	28-Jul-17	19-Aug-17	497					
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	28-Jul-17	10-Sep-17	592					
NB03040	NB61A (75-190m) - NB production	96.06%	15	381	20-Feb-16 A	03-Jun-17	691					
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Jun-17	09-Jun-17	562					
Fanling Highway Construction												
Drainage & Road Works												
Ch 5880-6740												
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0%	0	0	10-Aug-17		0					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								May	Jun	Jul	Aug	
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	0%	40	40	10-Aug-17	25-Sep-17	0					
Other Works												
Site Clearance & Demolition of Existing Structure												
Contract Condition												
MCLT1090	New MCLT - finishes works	77.5%	72	320	20-May-16 A	14-Aug-17	507					
MCLT1100	New MCLT completion	0%	0	0		14-Aug-17	507					14-Aug-17* ◆ Ne
TCSS Works												
G54												
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		09-Aug-17	481					09-Aug-17 ◆ Slow la
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)												
Noise Barrier Along TWSR-West and Laying New Utilities												
NB63A (Ch.6710-6840)-TWSR West Side												
Noise Barrier Works												
NB01200	NB63A-3 - NB post installation	83.45%	24	145	17-Sep-16 A	17-Jun-17	555					
NB64 & NB64A (Ch.6860-6920)-TWSR West Side												
Noise Barrier Works												
NB001060	NB64 & NB64A -NB post & panel installation	89.8%	31	304	14-Mar-16 A	26-Jun-17	548					
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	20-May-17	30-Jun-17	544					
Bridge Construction												
Kau Lung Hang Vehicular Bridge												
KLH Bridge - West Ramp												
KLH.1290	West Ramp - Planting	0%	21	21	20-May-17	14-Jun-17	558					
KLH Bridge - Deck 1												
KLH.3430	Deck 1 - Planting	0%	21	21	20-May-17	14-Jun-17	558					
KLH Bridge - Deck 3												
KLH.3500	Deck 3 - Planting	0%	21	21	20-May-17	14-Jun-17	590					
KLH Bridge - East Ramp												
KLH.3590	East Ramp - Planting	0%	34	34	20-May-17	29-Jun-17	898					
KLH Bridge - Ramp R1												
Z2.KLH.3610	Ramp R1 - Steel roof	80%	11	55	19-Jan-17 A	02-Jun-17	568					
KLH Bridge - Ramp R2												
Z2.KLH.1523	VO 028 - Boundary Wall to Hse 190B structure	0%	24	24	20-May-17*	17-Jun-17	529					
Z2.KLH.1524	VO 028 - Boundary Wall to Hse 190B E&M, Drainage	0%	26	26	19-Jun-17	19-Jul-17	529					
Z2.KLH.1550	Ramp R2 - Steel roof	33.33%	16	24	14-Mar-17 A	08-Jun-17	563					
Bridge Road Work												
Z2.KLH.2030	Diversion of existing pedestrian to proposed Kiu Lung Hang Vehicular	0%	1	1	20-May-17*	20-May-17	-22					
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-May-17	11-Oct-17	459					
Lift at TWSR-W Side												
L01040	Temp work & Pile cap	0%	45	45	20-May-17	13-Jul-17	339					
L01050	Lift pit	0%	24	24	14-Jul-17	10-Aug-17	339					
L01060	Lift shaft & roof	0%	52	52	11-Aug-17	12-Oct-17	339					
L01094	Lift submission & ordering period	68.34%	107	338	01-Aug-16 A	23-Sep-17	383					
L01140	CLP Power available (by CLP)	92.55%	33	443	04-Apr-16 A	21-Jun-17	653					
Lift at FLHY S/B												
L01200	Temp work & Pier cap	51.11%	22	45	10-Mar-17 A	15-Jun-17	347					
L01210	Lift pit	0%	30	30	16-Jun-17	21-Jul-17	347					
L01220	Lift shaft & roof	0%	90	90	22-Jul-17	07-Nov-17	347					
L01300	CLP Power available (by CLP)	80.17%	94	474	04-Apr-16 A	21-Aug-17	598					
TWSR-West Construction												
Drainage & Road Works												
General												
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	20-May-17	31-Jul-17	30					
Noise Barrier Along Fanling Highway S/B												
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB03090	NB62 (0-80m) - Footing & Wall Structure	25.32%	59	79	12-Dec-16 A	29-Jul-17	480					
NB03100	NB62 (0-80m) - backfilling	0%	68	20	27-Mar-17 A	09-Aug-17	506					
NB03110	NB62 (0-80m) - NB production	0%	45	45	29-Jul-17	12-Sep-17	590					
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-May-17*	03-Jun-17	449					
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	05-Jun-17	04-Jul-17	502					
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	05-Jul-17	20-Jul-17	523					
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	05-Jul-17	18-Aug-17	615					
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	19-Aug-17	24-Aug-17	498					
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	05-Jun-17	24-Jun-17	449					
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	26-Jun-17	04-Sep-17	449					
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	20-May-17	25-May-17	574					
Fanling Highway Construction												
Drainage & Road Works												
Ch 6740-6930												
RDZ20470	Z2 (CH6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	10-Aug-17	06-Sep-17	76					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
TWSR-West/ FL Highway N/B Side Section												

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								May	Jun	Jul	Aug
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-May-17	24-Jun-17	581				
HKY1440	Remaining Finishes works of HKYFB	45.03%	83	151	21-Nov-16 A	26-Aug-17	483				
TWSR-East FL Highway S/B Side Section											
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	77.1%	30	131	13-Oct-16 A	24-Jun-17	581				
Other Works											
Slope Works											
TWSR-East FL Highway S/B Side Section											
S1000	Slope S51-Fill ~3m	0%	40	40	20-Apr-17 A	07-Jul-17	535				
ZONE 4 (Ch. 7925 to 8700)											
Noise Barrier Along Fanling Highway N/B											
NB75 (Ch.7930-8090)-FH N/B Side											
Noise Barrier Works											
NB4060	NB75 - Footing & Wall Structure (Ch7930-7990)	53.33%	28	60	20-Mar-17 A	22-Jun-17	0				
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	23-Jun-17	17-Jul-17	90				
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	23-Jun-17	06-Aug-17	162				
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	07-Aug-17	11-Aug-17	133				
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	23-Jun-17	28-Jul-17	0				
NB4130	NB75 - backfilling (Ch7990-8000)	0%	12	12	29-Jul-17	11-Aug-17	108				
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	29-Jul-17	11-Sep-17	132				
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	0%	50	50	29-Jul-17	25-Sep-17	0				
NB77 (Ch.8090-8450)-FH N/B Side											
Noise Barrier Works											
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	90	90	20-May-17	04-Sep-17	8				
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	90	90	14-Jul-17	30-Oct-17	8				
NB4420	NB77 - piling (NB77/18-26, 0.19m -36no)	65.38%	9	26	08-Apr-17 A	31-May-17	24				
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	0%	20	20	20-May-17 A	13-Jun-17	7				
NB4475	NB77 - piling (NB77/27 - 28, 0.19m -8no)	0%	6	6	14-Jun-17	20-Jun-17	7				
NB4480	NB77 - piling (NB77/29 - 30, 0.19m -24no)	0%	14	14	21-Jun-17	07-Jul-17	7				
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 30) (Ch8390-8450)	0%	75	75	03-Aug-17	01-Nov-17	7				
NB4485	NB77 - piling (NB77/31 - 32, 0.19m -14no) & G35 (8nos)	0%	22	22	08-Jul-17	02-Aug-17	7				
Bridge Construction											
New Wo Hop Shek Pedstrian & Cycle Bridge											
General											
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		13-Jun-17	545				3-Jun-17 ♦ Existing Wo Hop Shek Bridge Demolished
TWSR-West/ FL Highway N/B Side Section											
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	20-May-17	04-Sep-17	279				
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge											
TWSR-East FL Highway S/B Side Section											
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Pending for	0%	20	20	20-May-17	13-Jun-17	69				
Slip Road Y Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4	0%	100	100	14-Jun-17	11-Oct-17	69				
Underground Utility Works											
DN600 and DN900 Watermain											
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	15-Jun-17	24-Oct-17	480				
VO - Wall 76A Construction											
Retaining Wall W76A											
TWSR-East FL Highway S/B Side Section											
W76A1050	Drainage work for Caltex access road	0%	150	150	20-May-17	16-Nov-17	311				
Fanling Highway Construction											
Drainage & Road Works											
TWSR-East FL Highway S/B Side Section											
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY	0%	145	145	20-May-17	10-Nov-17	123				
RDZ41121	Drainage work at central divider (at NBZ2)	36%	96	150	01-Feb-17 A	11-Sep-17	2				
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	08-Aug-17	05-Feb-18	2				
Other Works											
Retaining Wall W77A											
TWSR-East FL Highway S/B Side Section											
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A (Ch.0-20)	34.29%	23	35	01-Apr-17 A	16-Jun-17	136				
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	26-Jun-17	23-Aug-17	109				
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	28.57%	30	42	01-Feb-17 A	24-Jun-17	109				
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	20-May-17	14-Jun-17	138				
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	15-Jun-17		480				♦ DN600 pipe installation ready to start
RWZ4.1190	Temporary diversion of existing watermain under new slip road Y	0%	7	7	26-May-17*	03-Jun-17	0				
Retaining Wall W77B											
TWSR-East FL Highway S/B Side Section											
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	73.68%	15	57	20-Jan-17 A	07-Jun-17	109				
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	08-Jun-17	13-Jul-17	109				
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	14-Jul-17	23-Aug-17	109				
TCSS Works											
TCSS Pre-Construction Works											
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-May-17	13-Jul-17	87				
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	14-Jul-17	03-Aug-17	104				
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	04-Aug-17	24-Aug-17	86				
G34											

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								May	Jun	Jul	Aug	
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		17-Jul-17	291					17-Jul-17 ◆ Slow lane footing - G34 (NB75)
TCSS1530	Fast lane footing - G34 (CH7990, N/B)	0%	30	30	20-May-17	24-Jun-17	309					
G35												
TCSS1550	Slip road island footing - G35 (CH8410, N/B)	0%	30	30	20-May-17	24-Jun-17	339					
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-May-17	25-May-17	364					
DS50												
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-May-17	24-Jun-17	399					
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	20-May-17	25-May-17	424					
FADS8												
TCSS1630	Fast lane footing - FADS8 (CH8220, S/B)	0%	30	30	20-May-17	24-Jun-17	429					
FVMS2 (Deleted by RFI-138, Pending for VO)												
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-May-17	24-Jun-17	459					
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-May-17	24-Jun-17	459					

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

Contract No. 02/HY/2015

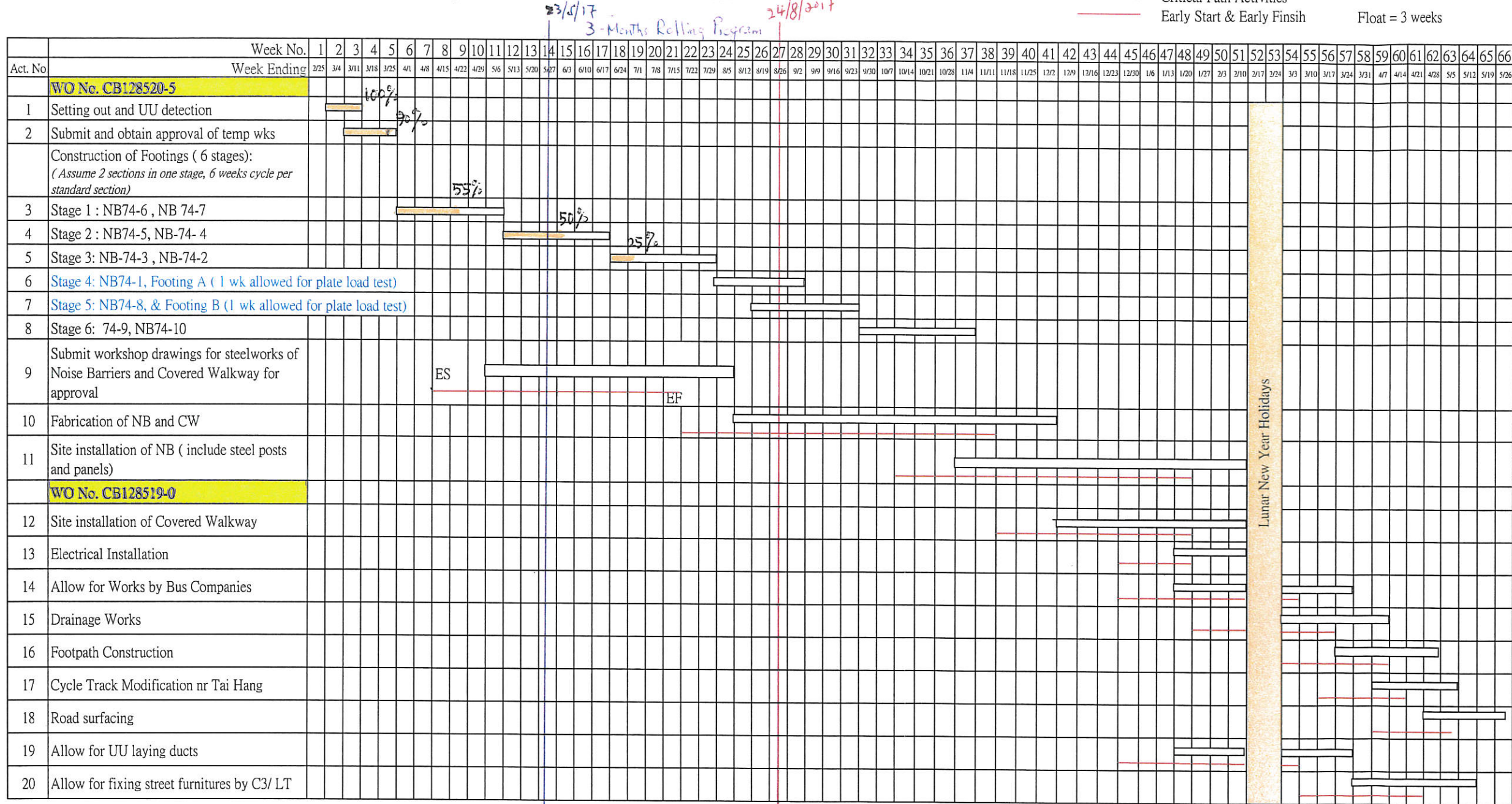
Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Rev : 02
22/5/2017

Programmed Duration
 Actual Progress
 Critical Path Activities
 Early Start & Early Finish

Float = 3 weeks



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M3	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M3	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

**CONSTRUCTION PROGRAMME OF
JUNE 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
Contract Condition												
General												
Contract Condition												
Contract Condition												
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0%	0	0		29-Aug-17	6					29-Aug-17* ◆ KD-13 (1309d) -S
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jun-17		1115					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jun-17*		-901					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Jun-17*		-703					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Jun-17*		-568					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
Underground Utility Works												
ADVZ20180	Utility cable changeover period (NWT)	87.44%	26	207	21-Dec-16 A	15-Jul-17	191					
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	87.5%	26	208	20-Dec-16 A	15-Jul-17	191					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	85.26%	42	285	20-Oct-16 A	31-Jul-17*	0					
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	56.57%	43	99	08-Apr-17 A	09-Aug-17	6					
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	0%	75	75	10-Aug-17	08-Nov-17	172					
ADVZ20250	FLHY N/B Lane 4 ready to Start	0%	0	0	10-Aug-17		6					◆ FLHY N/B Lane 4 ready to Start
Noise Barrier Along TWSR-West and Laying New Utilities												
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	5	5	20-Jun-17	24-Jun-17	549					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20160	TTA for NB works	80%	6	30	20-Apr-17 A	26-Jun-17	173					
NB60 (Ch.6450-6920)-FH N/B Side												
Noise Barrier Works												
NB01753	NB60 (0-15m)(NB60/1, 0.19m -10nos) Piling	0%	16	16	22-Jun-17	11-Jul-17	42					
NB01755	NB60-1 (0-15m) - Sheet piling & Excavation	0%	6	6	15-Jul-17	21-Jul-17	39					
NB01757	NB60-1 (0-15m) - Footing & Wall Structure	0%	24	24	22-Jul-17	18-Aug-17	39					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	83.7%	52	319	20-Jul-16 A	19-Aug-17	231					
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	21-Aug-17		231					◆ Steel Staircase & Bridge
TWSR-West/ FL Highway N/B Side Section												
THBF0620	Finishes Work	50.56%	88	178	27-Feb-17 A	30-Sep-17	285					
Crossing Fanling Highway Section												
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	18	18	22-Jun-17	13-Jul-17	149					
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	90	90	14-Jul-17	30-Oct-17	149					
TWSR-East FL Highway S/B Side Section												
THBF0470	THAB1 - pile cap & abutment wall	82.41%	35	199	21-Nov-16 A	31-Jul-17	852					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	01-Aug-17	23-Aug-17	852					
THBF0520	THP2 - Pile cap, Pier and Pier Head	76.6%	22	94	20-Mar-17 A	15-Jul-17	237					
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	21-Aug-17	23-Sep-17	261					
THBF0780	Modified existing column head of existing footbridge	0%	76	76	20-Jun-17	16-Sep-17	177					
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	30	30	18-Sep-17	24-Oct-17	177					
Lift at TWSR-W Side												
L1520	Lift shaft & roof	88.52%	35	305	16-Jul-16 A	31-Jul-17	218					
L1530	Structural Laminated glass wall installation	0%	30	30	01-Aug-17	04-Sep-17	260					
L1540	RC Platform connect to bridge	0%	30	30	01-Aug-17	04-Sep-17	218					
L1550	Metal cover on RC platform	0%	30	30	05-Sep-17	11-Oct-17	218					
L1600	CLP Power available (by CLP)	85.65%	61	425	21-Jun-16 A	19-Aug-17	424					
Lift at FLHY S/B												
L1370	Lift shaft & roof	96.41%	8	223	20-Sep-16 A	28-Jun-17	151					
L1380	Structural Laminated glass wall installation	0%	30	30	29-Jun-17	03-Aug-17	181					
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	29-Jun-17	03-Aug-17	151					
L1400	Roof cover for RC Platform	0%	30	30	04-Aug-17	07-Sep-17	151					
L1410	Lift installation (NF78)	0%	70	70	08-Sep-17	01-Dec-17	151					
L1440	E&M and Finishes work	0%	100	100	08-Sep-17	09-Jan-18	155					
L1450	CLP Power available (by CLP)	79.61%	93	456	21-Jun-16 A	20-Sep-17	262					
New Tai Wo Footbridge												

	Project ID: WP Rev 04 (1706)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Jun-17)		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
Page 1 of 5				30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3		
				08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
General												
TWFB1090	Steel Bridge prefabrication (TWFB)	77.46%	64	284	15-Aug-16 A	02-Sep-17	340					
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	04-Sep-17		340					◆ Steel Bridge
TWSR-West/ FL Highway N/B Side Section												
TWFB1390	Finishes Work	0%	30	30	20-May-17 A	25-Jul-17	510					
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		25-Jul-17	510					◆ Bridge Structure complete (TWFB-TWSR-W side)
Crossing Fanling Highway Section												
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	88.89%	2	18	01-Jun-17 A	21-Jun-17	42					
TWFB1430	TWP2 - Pile Test	10.71%	25	28	15-Jun-17 A	14-Jul-17	46					
TWFB1440	TWP2 - Pile cap	0%	30	30	15-Jul-17	18-Aug-17	72					
Lift at TWSR-W Side												
L1670	Lift shaft & roof	96.68%	10	301	21-Jun-16 A	30-Jun-17	350					
L1680	Structural Laminated glass wall installation	0%	30	30	03-Jul-17	05-Aug-17	393					
L1690	RC Link slab connect to bridge	0%	30	30	03-Jul-17	05-Aug-17	350					
L1700	Metal cover on RC platform	0%	30	30	07-Aug-17	09-Sep-17	350					
L1710	Glass canopy on ground level	0%	30	30	11-Sep-17	17-Oct-17	807					
L1730	Lift submission & ordering period	80.82%	61	318	02-Jul-16 A	30-Aug-17	372					
L1740	Lift installation	0%	70	70	11-Sep-17	04-Dec-17	363					
L1770	E&M and Finishes work	0%	120	120	11-Sep-17	03-Feb-18	350					
L1780	CLP Power available (by CLP)	64.24%	152	425	20-Aug-16 A	18-Nov-17	465					
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		11-Sep-17	39					◆ TWFB
TWFB-T1072	Piling work for NB60 bay 1 (0.19m -10no)	0%	16	16	22-Jun-17	11-Jul-17	42					
TWFB-T1074	NB60 bay 1 footing	0%	30	30	15-Jul-17	18-Aug-17	39					
TWFB-T1080	Erect Temp bridge from TWP1 to P2 to Existing Bridge	0%	20	20	19-Aug-17	11-Sep-17	39					
TWFB-T1090	Diverse Pedestrian to TWFB ramp	0%	1	1	12-Sep-17	12-Sep-17	39					
TWFB-T1100	Demolish Temp Ramp for TTA	0%	12	12	13-Sep-17	26-Sep-17	39					
TWFB-T1205	Erect Temp Column & link bridge at FLHY N/B (besides TW-P2 & NB60)	0%	75	75	19-Aug-17	17-Nov-17	45					
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	90	90	08-Sep-17	27-Dec-17	13					
Noise Barrier Along Fanling Highway S/B												
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02300	NB51 ID1-3 (0-25m) - NB production	68.89%	14	45	20-May-17 A	03-Jul-17	661					
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB02330	NB51(25-118m) - Footing & Wall Structure	84.8%	45	296	13-Mar-17 A	12-Mar-18	150					
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02380	NB52 - Footing & Wall Structure	73.82%	50	191	18-Nov-16 A	17-Aug-17	449					
NB02390	NB52- backfilling	0%	50	50	18-Aug-17	17-Oct-17	449					
NB02400	NB52 - NB production	0%	45	45	18-Aug-17	01-Oct-17	571					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Jun-17	20-Jul-17	355					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	21-Jul-17	19-Aug-17	402					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	21-Aug-17	01-Nov-17	402					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	03-Aug-17	14-Aug-17	344					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	15-Aug-17	14-Sep-17	344					
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	15-Sep-17	11-Oct-17	344					
NB02590	NB53 (125-180m) - NB production	96.31%	14	379	20-May-16 A	03-Jul-17	661					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	96.84%	24	759	07-Nov-14 A	18-Jul-17	344					
NB02650	NB55- backfilling	0%	50	50	19-Jul-17	14-Sep-17	344					
NB02660	NB55 - NB production	92.47%	40	531	15-Jan-16 A	29-Jul-17	635					
NB02670	NB55 - NB post & panel installation	0%	5	5	15-Sep-17	20-Sep-17	475					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	97.01%	14	469	20-Feb-16 A	03-Jul-17	661					
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Jun-17	11-Jul-17	13					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-Jul-17	07-Sep-17	13					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	08-Sep-17	08-Nov-17	436					
NB02800	NB61 (0-50m) - NB production	0%	45	45	08-Sep-17	22-Oct-17	550					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Jun-17	03-Aug-17	630					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Aug-17	09-Aug-17	511					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	91%	45	500	20-Feb-16 A	03-Aug-17	630					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Jun	Jul	Aug	Sep
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Aug-17	09-Aug-17	511				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	91.59%	57	678	01-Apr-15 A	25-Aug-17	457				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	26-Aug-17	18-Sep-17	472				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	26-Aug-17	09-Oct-17	563				
NB03040	NB61A (75-190m) - NB production	96.81%	15	470	20-Feb-16 A	04-Jul-17	660				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Jul-17	10-Jul-17	537				
Box Culvert ID3 Works											
VO58 Extension of ID3											
ID30140	Wing Wall Construction	0%	75	75	01-Sep-17*	30-Nov-17	358				
Fanling Highway Construction											
Drainage & Road Works											
Ch 5880-6740											
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0%	0	0	10-Aug-17		6				◆ Z2 (CH5880-6740) : Fanling Highway
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	0%	40	40	10-Aug-17	25-Sep-17	6				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	80.22%	72	364	20-May-16 A	12-Sep-17	482				
MCLT1100	New MCLT completion	0%	0	0		12-Sep-17	482				12-Sep-17* ◆ New
TCCS Works											
G54											
TCCS1500	Slow lane footing - G54 (NB61)	0%	0	0		07-Sep-17	456				07-Sep-17 ◆ Slow lane
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB63A (Ch.6710-6840)-TWSR West Side											
Noise Barrier Works											
NB01200	NB63A-3 - NB post installation	88.89%	24	216	17-Sep-16 A	18-Jul-17	530				
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	20-Jun-17	31-Jul-17	479				
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	01-Aug-17	15-Sep-17	479				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	20-Jun-17	14-Jul-17	533				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	20-Jun-17	14-Jul-17	533				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	20-Jun-17	14-Jul-17	565				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	20-Jun-17	29-Jul-17	873				
KLH Bridge - Ramp R1											
Z2.KLH.3610	Ramp R1 - Steel roof	89.22%	11	102	19-Jan-17 A	03-Jul-17	543				
KLH Bridge - Ramp R2											
Z2.KLH.1550	Ramp R2 - Steel roof	76.47%	16	68	14-Mar-17 A	08-Jul-17	538				
Bridge Road Work											
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Jun-17	10-Nov-17	434				
Lift at TWSR-W Side											
L01040	Temp work & Pile cap	0%	45	45	20-Jun-17	11-Aug-17	314				
L01050	Lift pit	0%	24	24	12-Aug-17	08-Sep-17	314				
L01060	Lift shaft & roof	0%	52	52	09-Sep-17	11-Nov-17	314				
L01094	Lift submission & ordering period	68.44%	107	339	01-Aug-16 A	25-Oct-17	358				
L01140	CLP Power available (by CLP)	92.57%	33	444	04-Apr-16 A	22-Jul-17	622				
Lift at FLHY S/B											
L01200	Temp work & Pier cap	71.43%	22	77	10-Mar-17 A	15-Jul-17	322				
L01210	Lift pit	0%	30	30	17-Jul-17	19-Aug-17	322				
L01220	Lift shaft & roof	0%	90	90	21-Aug-17	06-Dec-17	322				
L01300	CLP Power available (by CLP)	81.39%	94	505	04-Apr-16 A	21-Sep-17	567				
TWSR-West Construction											
Drainage & Road Works											
General											
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	20-Jun-17	29-Aug-17	5				
Noise Barrier Along Fanling Highway S/B											
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB03090	NB62 (0-80m) - Footing & Wall Structure	67.22%	59	180	12-Dec-16 A	28-Aug-17	455				
NB03100	NB62 (0-80m) - backfilling	37.61%	68	109	27-Mar-17 A	07-Sep-17	481				
NB03110	NB62 (0-80m) - NB production	0%	45	45	29-Aug-17	12-Oct-17	560				
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Jun-17*	04-Jul-17	424				
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	05-Jul-17	02-Aug-17	477				
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	03-Aug-17	18-Aug-17	498				
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	03-Aug-17	16-Sep-17	586				
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	18-Sep-17	22-Sep-17	473				
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	05-Jul-17	25-Jul-17	424				
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	26-Jul-17	04-Oct-17	424				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	20-Jun-17	24-Jun-17	549					
Fanling Highway Construction												
Drainage & Road Works												
Ch 6740-6930												
RDZ20470	Z2 (Ch6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	10-Aug-17	06-Sep-17	82					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
TWSR-West/ FL Highway N/B Side Section												
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Jun-17	25-Jul-17	556					
HKY1440	Remaining Finishes works of HKYFB	62.61%	83	222	21-Nov-16 A	25-Sep-17	458					
TWSR-East FL Highway S/B Side Section												
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	85.15%	30	202	13-Oct-16 A	25-Jul-17	556					
Other Works												
Slope Works												
TWSR-East FL Highway S/B Side Section												
S1000	Slope S51-Fill -3m	37.5%	40	64	20-Apr-17 A	05-Aug-17	510					
ZONE 4 (Ch. 7925 to 8700)												
Noise Barrier Along Fanling Highway N/B												
NB75 (Ch.7930-8090)-FH N/B Side												
Noise Barrier Works												
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	20-Jun-17	13-Jul-17	93					
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	20-Jun-17	03-Aug-17	165					
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	04-Aug-17	09-Aug-17	135					
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	08-Jun-17 A	25-Jul-17	111					
NB4130	NB75 - backfilling (Ch7990-8000)	0%	12	12	26-Jul-17	08-Aug-17	111					
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	26-Jul-17	08-Sep-17	135					
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	09-Sep-17	14-Sep-17	109					
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	74%	13	50	08-Jun-17 A	05-Jul-17	100					
NB4190	NB75 - backfilling (Ch8000-8050)	0%	20	20	14-Jul-17	05-Aug-17	93					
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	06-Jul-17	19-Aug-17	155					
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	21-Aug-17	25-Aug-17	126					
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	0%	50	50	20-Jun-17 A	17-Aug-17	83					
NB4250	NB75 - backfilling (Ch8050-8090)	0%	20	20	18-Aug-17	09-Sep-17	83					
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	18-Aug-17	01-Oct-17	112					
NB4580	NB75 backfilling complete	0%	0	0		09-Sep-17	83					09-Sep-17 ◆ NB75 b
NB77 (Ch.8090-8450)-FH N/B Side												
Noise Barrier Works												
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	80	80	20-Jun-17	21-Sep-17	3					
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	80	80	01-Aug-17	04-Nov-17	3					
NB4420	NB77 - piling (NB77/18-26, 0.19m -36no)	77.5%	9	40	08-Apr-17 A	29-Jun-17	6					
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	0%	90	90	11-Sep-17	29-Dec-17	3					
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	55%	9	20	20-May-17 A	29-Jun-17	0					
NB4475	NB77 - piling (NB77/27 - 28, 0.19m -8no)	0%	6	6	30-Jun-17	07-Jul-17	0					
NB4480	NB77 - piling (NB77/N1- N2, 0.19m -24no) (confirming design by	0%	14	14	08-Jul-17	24-Jul-17	0					
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 30) (Ch8390-8450)	0%	70	70	19-Aug-17	11-Nov-17	0					
NB4485	NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos)	0%	22	22	25-Jul-17	18-Aug-17	0					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		13-Jul-17	520					13-Jul-17 ◆ Existing Wo Hop Shek Bridge Demolished
TWSR-West/ FL Highway N/B Side Section												
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	20-Jun-17	04-Oct-17	254					
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	10-Jul-17*		0					◆ Potential VO for WHS Ramp modification (1st stage)
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	10-Jul-17	24-Oct-17	138					
WHS2110	Material procurement & testing	0%	60	60	14-Aug-17	24-Oct-17	138					
Crossing Fanling Highway Section												
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	10-Jul-17	16-Sep-17	474					
WHS1520	Remove railing	0%	12	12	18-Sep-17	30-Sep-17	474					
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge												
TWSR-East FL Highway S/B Side Section												
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Instructed	0%	20	20	20-Jun-17	13-Jul-17	34					
Slip Road Y Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4	0%	100	100	14-Jul-17	10-Nov-17	34					
Underground Utility Works												
DN600 and DN900 Watermain												
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	15-Jul-17	23-Nov-17	455					
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Jun-17	15-Dec-17	286					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
Fanling Highway Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY)	0%	145	145	20-Jun-17	09-Dec-17	98					
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	82					
RDZ41121	Drainage work at central divider (at NBZ2)	60.34%	71	179	01-Feb-17 A	11-Sep-17	2					
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	32					
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	32					
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	08-Aug-17	05-Feb-18	2					
Other Works												
Retaining Wall W77A												
TWSR-East FL Highway S/B Side Section												
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A(Ch.0-20)	61.02%	23	59	01-Apr-17 A	17-Jul-17	101					
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	26-Jul-17	21-Sep-17	74					
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	73.45%	30	113	01-Feb-17 A	25-Jul-17	74					
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	26-May-17 A	14-Jul-17	103					
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	15-Jul-17		455					
Retaining Wall W77B												
TWSR-East FL Highway S/B Side Section												
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	85.71%	15	105	20-Jan-17 A	07-Jul-17	74					
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	08-Jul-17	11-Aug-17	74					
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	12-Aug-17	21-Sep-17	74					
TCSS Works												
TCSS Pre-Construction Works												
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Jun-17	11-Aug-17	62					
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	12-Aug-17	01-Sep-17	75					
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	02-Sep-17	22-Sep-17	61					
G34												
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		13-Jul-17	294					
G35												
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Jun-17	24-Jun-17	459					
DS50												
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Jun-17	25-Jul-17	344					
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	12-Sep-17	16-Sep-17	298					
FVMS2 (Deleted by RFI-138, Pending for VO)												
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Jun-17	25-Jul-17	404					
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Jun-17	25-Jul-17	404					

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.

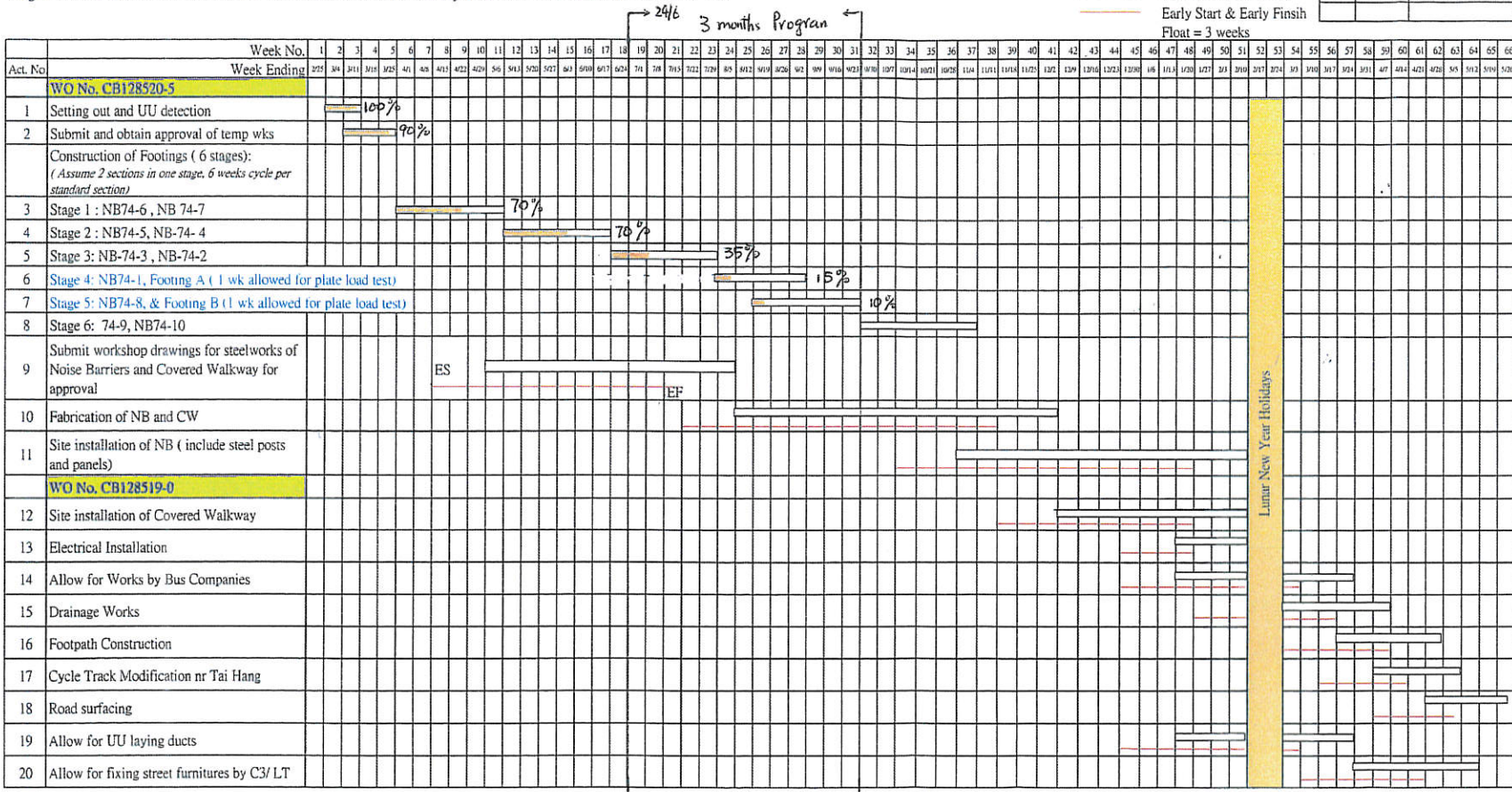
Contract No. 02/HY/2015

Works Order Nos: CB128519-0 & CB128520-5

Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program

- Programmed Duration
 - Actual Progress
 - Critical Path Activities
 - Early Start & Early Finish
- Float = 3 weeks



**CONSTRUCTION PROGRAMME OF
JULY 2017**

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
Contract Condition												
General												
Contract Condition												
Contract Condition												
KD13	KD-13 (1309d) -S3: Connection of realigned Tai Wo Service Road	0%	0	0		29-Aug-17	6					29-Aug-17* ◆ KD-13 (1309d) -S
POSSA323A	Site Area SA323A (360d) (not required)	0%	0	0	20-Jun-17		1115					◆ Site Area SA323A (360d) (not required)
POSSA327	Site Area SA327 (180d)	0%	0	0	20-Jun-17*		-901					◆ Site Area SA327 (180d)
POSSA327A	Site Area SA327A (730d)	0%	0	0	20-Jun-17*		-703					◆ Site Area SA327A (730d)
POSSA345	Site Area SA345 (0d)	0%	0	0	20-Jun-17*		-568					◆ Site Area SA345 (0d)
ZONE 1 (Ch. 5640 to 5880)												
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
Underground Utility Works												
ADVZ20180	Utility cable changeover period (NWT)	87.44%	26	207	21-Dec-16 A	15-Jul-17	191					
ADVZ20182	Additional Utility cable changeover period (PCCW, HCG)	87.5%	26	208	20-Dec-16 A	15-Jul-17	191					
ZONE 2 (Ch. 5880 to 6930)												
General												
DRM Proposal												
DRM Proposal												
ADVZ20200	Utility cable changeover period (All Utility Companies)(9 months)	85.26%	42	285	20-Oct-16 A	31-Jul-17*	0					
ADVZ20230	Construct Temp Road at NB at North bound (0.5 HS+Lane 1 & 2)	56.57%	43	99	08-Apr-17 A	09-Aug-17	6					
ADVZ20240	Remove Existing Central Barrier at FLHY & Temp Road	0%	75	75	10-Aug-17	08-Nov-17	172					
ADVZ20250	FLHY N/B Lane 4 ready to Start	0%	0	0	10-Aug-17		6					◆ FLHY N/B Lane 4 ready to Start
Noise Barrier Along TWSR-West and Laying New Utilities												
NB54A (Ch.6290-6350)-TWSR West Side												
Noise Barrier Works												
NB00790	NB54A - NB post & panel installation	0%	5	5	20-Jun-17	24-Jun-17	549					
Noise Barrier Along Fanling Highway N/B												
Site Clearance & Demolition of Existing Structure												
General												
ADVZ20160	TTA for NB works	80%	6	30	20-Apr-17 A	26-Jun-17	173					
NB60 (Ch.6450-6920)-FH N/B Side												
Noise Barrier Works												
NB01753	NB60 (0-15m)(NB60/1, 0.19m -10nos) Piling	0%	16	16	22-Jun-17	11-Jul-17	42					
NB01755	NB60-1 (0-15m) - Sheet piling & Excavation	0%	6	6	15-Jul-17	21-Jul-17	39					
NB01757	NB60-1 (0-15m) - Footing & Wall Structure	0%	24	24	22-Jul-17	18-Aug-17	39					
Bridge Construction												
New Tai Hang Footbridge												
General												
THBF0370	Steel Staircase & Bridge prefabrication (THFB-TWSR-E side)	83.7%	52	319	20-Jul-16 A	19-Aug-17	231					
THBF0380	Steel Staircase & Bridge available on site (THFB-TWSR-E side)	0%	0	0	21-Aug-17		231					◆ Steel Staircase & Bridge
TWSR-West/ FL Highway N/B Side Section												
THBF0620	Finishes Work	50.56%	88	178	27-Feb-17 A	30-Sep-17	285					
Crossing Fanling Highway Section												
THBF0540	THP1 - Pre-bored H pile (6 nos)	0%	18	18	22-Jun-17	13-Jul-17	149					
THBF0560	THP1 - Pile cap, Pier and Pier Head	0%	90	90	14-Jul-17	30-Oct-17	149					
TWSR-East FL Highway S/B Side Section												
THBF0470	THAB1 - pile cap & abutment wall	82.41%	35	199	21-Nov-16 A	31-Jul-17	852					
THBF0480	THAB1 - Backfilling (~3m)	0%	20	20	01-Aug-17	23-Aug-17	852					
THBF0520	THP2 - Pile cap, Pier and Pier Head	76.6%	22	94	20-Mar-17 A	15-Jul-17	237					
THBF0570	Erect Staircase (THFB-TWSR-E side)	0%	30	30	21-Aug-17	23-Sep-17	261					
THBF0780	Modified existing column head of existing footbridge	0%	76	76	20-Jun-17	16-Sep-17	177					
THBF0785	Reconstruction of existing span between P4 and existing pier	0%	30	30	18-Sep-17	24-Oct-17	177					
Lift at TWSR-W Side												
L1520	Lift shaft & roof	88.52%	35	305	16-Jul-16 A	31-Jul-17	218					
L1530	Structural Laminated glass wall installation	0%	30	30	01-Aug-17	04-Sep-17	260					
L1540	RC Platform connect to bridge	0%	30	30	01-Aug-17	04-Sep-17	218					
L1550	Metal cover on RC platform	0%	30	30	05-Sep-17	11-Oct-17	218					
L1600	CLP Power available (by CLP)	85.65%	61	425	21-Jun-16 A	19-Aug-17	424					
Lift at FLHY S/B												
L1370	Lift shaft & roof	96.41%	8	223	20-Sep-16 A	28-Jun-17	151					
L1380	Structural Laminated glass wall installation	0%	30	30	29-Jun-17	03-Aug-17	181					
L1390	RC Platform connect to bridge (THSC-2 & TH-P2)	0%	30	30	29-Jun-17	03-Aug-17	151					
L1400	Roof cover for RC Platform	0%	30	30	04-Aug-17	07-Sep-17	151					
L1410	Lift installation (NF78)	0%	70	70	08-Sep-17	01-Dec-17	151					
L1440	E&M and Finishes work	0%	100	100	08-Sep-17	09-Jan-18	155					
L1450	CLP Power available (by CLP)	79.61%	93	456	21-Jun-16 A	20-Sep-17	262					
New Tai Wo Footbridge												

	Project ID: WP Rev 04 (1706)	Contract No. HY/2012/06 Widening of Fanling Highway - Tai Hang to Wo Hop Shek Interchange 3 Month Rolling Program(20-Jun-17)		Date	Revision	C...	A..
	Layout: 3 Month Rolling Program			13-May-14	WP Rev 1		
Page 1 of 5				30-Jun-14	WP Rev 1A		
				28-Aug-15	WP Rev 2		
				07-Apr-16	WP Rev 3		
				08-Nov-16	WP Rev 4		

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
General												
TWFB1090	Steel Bridge prefabrication (TWFB)	77.46%	64	284	15-Aug-16 A	02-Sep-17	340					
TWFB1100	Steel Bridge available on site (TWFB)	0%	0	0	04-Sep-17		340					◆ Steel Bridge
TWSR-West/ FL Highway N/B Side Section												
TWFB1390	Finishes Work	0%	30	30	20-May-17 A	25-Jul-17	510					
TWFB1400	Bridge Structure complete (TWFB-TWSR-W side)	0%	0	0		25-Jul-17	510					◆ Bridge Structure complete (TWFB-TWSR-W side)
Crossing Fanling Highway Section												
TWFB1420	TWP2 - Pre-bored H pile (6 nos)	88.89%	2	18	01-Jun-17 A	21-Jun-17	42					
TWFB1430	TWP2 - Pile Test	10.71%	25	28	15-Jun-17 A	14-Jul-17	46					
TWFB1440	TWP2 - Pile cap	0%	30	30	15-Jul-17	18-Aug-17	72					
Lift at TWSR-W Side												
L1670	Lift shaft & roof	96.68%	10	301	21-Jun-16 A	30-Jun-17	350					
L1680	Structural Laminated glass wall installation	0%	30	30	03-Jul-17	05-Aug-17	393					
L1690	RC Link slab connect to bridge	0%	30	30	03-Jul-17	05-Aug-17	350					
L1700	Metal cover on RC platform	0%	30	30	07-Aug-17	09-Sep-17	350					
L1710	Glass canopy on ground level	0%	30	30	11-Sep-17	17-Oct-17	807					
L1730	Lift submission & ordering period	80.82%	61	318	02-Jul-16 A	30-Aug-17	372					
L1740	Lift installation	0%	70	70	11-Sep-17	04-Dec-17	363					
L1770	E&M and Finishes work	0%	120	120	11-Sep-17	03-Feb-18	350					
L1780	CLP Power available (by CLP)	64.24%	152	425	20-Aug-16 A	18-Nov-17	465					
Temporary Tai Wo Footbridge												
Construction Works												
TWFB-T1070	TWFB across TWSR-W available	0%	0	0		11-Sep-17	39					◆ TWFB
TWFB-T1072	Piling work for NB60 bay 1 (0.19m -10no)	0%	16	16	22-Jun-17	11-Jul-17	42					
TWFB-T1074	NB60 bay 1 footing	0%	30	30	15-Jul-17	18-Aug-17	39					
TWFB-T1080	Erect Temp bridge from TWP1 to P2 to Existing Bridge	0%	20	20	19-Aug-17	11-Sep-17	39					
TWFB-T1090	Diverse Pedestrian to TWFB ramp	0%	1	1	12-Sep-17	12-Sep-17	39					
TWFB-T1100	Demolish Temp Ramp for TTA	0%	12	12	13-Sep-17	26-Sep-17	39					
TWFB-T1205	Erect Temp Column & link bridge at FLHY N/B (besides TW-P2 & NB60)	0%	75	75	19-Aug-17	17-Nov-17	45					
TWFB-T1208	Erect Temp Column & link bridge to existing bridge at FLHY S/B	0%	90	90	08-Sep-17	27-Dec-17	13					
Noise Barrier Along Fanling Highway S/B												
NB51 (Ch.5935-6055)-FH S/B Side												
Noise Barrier Works												
NB02300	NB51 ID1-3 (0-25m) - NB production	68.89%	14	45	20-May-17 A	03-Jul-17	661					
NB02310	NB51 ID1-3 (0-25m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB02330	NB51(25-118m) - Footing & Wall Structure	84.8%	45	296	13-Mar-17 A	12-Mar-18	150					
NB52 (Ch.6055-6125) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02380	NB52 - Footing & Wall Structure	73.82%	50	191	18-Nov-16 A	17-Aug-17	449					
NB02390	NB52- backfilling	0%	50	50	18-Aug-17	17-Oct-17	449					
NB02400	NB52 - NB production	0%	45	45	18-Aug-17	01-Oct-17	571					
NB53 (Ch.6125-6300) -FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02430	Precautionary Measure installation	0%	26	26	20-Jun-17	20-Jul-17	355					
NB02440	NB53 (0-100m) - Sheet piling & Excavation	0%	26	26	21-Jul-17	19-Aug-17	402					
NB02450	NB53 (0-100m) - Footing & Wall Structure	0%	60	60	21-Aug-17	01-Nov-17	402					
NB02490	NB53 ID2-3 (100-125m), 18nos Predrilling	0%	10	10	03-Aug-17	14-Aug-17	344					
NB02500	NB53 ID2-3 (100-125m) 18nos Piling- 1 rigs	0%	27	27	15-Aug-17	14-Sep-17	344					
NB02510	NB53 ID2-3 (100-125m) - Sheet piling & Excavation	0%	21	21	15-Sep-17	11-Oct-17	344					
NB02590	NB53 (125-180m) - NB production	96.31%	14	379	20-May-16 A	03-Jul-17	661					
NB02600	NB53 (125-180m) - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB55 (Ch.6300-6360)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02640	NB55 - Footing & Wall Structure	96.84%	24	759	07-Nov-14 A	18-Jul-17	344					
NB02650	NB55- backfilling	0%	50	50	19-Jul-17	14-Sep-17	344					
NB02660	NB55 - NB production	92.47%	40	531	15-Jan-16 A	29-Jul-17	635					
NB02670	NB55 - NB post & panel installation	0%	5	5	15-Sep-17	20-Sep-17	475					
NB56 (Ch.6360-6400)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02730	NB56 - NB production	97.01%	14	469	20-Feb-16 A	03-Jul-17	661					
NB02740	NB56 - NB post & panel installation	0%	5	5	04-Jul-17	08-Jul-17	538					
NB61 (Ch.6400-6560)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02770	NB61 (0-50m) - Sheet piling & Excavation	0%	18	18	20-Jun-17	11-Jul-17	13					
NB02780	NB61 (0-50m) - Footing & Wall Structure	0%	50	50	12-Jul-17	07-Sep-17	13					
NB02790	NB61 (0-50m)- backfilling	0%	50	50	08-Sep-17	08-Nov-17	436					
NB02800	NB61 (0-50m) - NB production	0%	45	45	08-Sep-17	22-Oct-17	550					
NB02850	NB61 (50-160m) - NB production	0%	45	45	20-Jun-17	03-Aug-17	630					
NB02860	NB61 (50-160m) - NB post & panel installation	0%	5	5	04-Aug-17	09-Aug-17	511					
NB61A (Ch.6560-6745)-FH S/B Side (MTRC I&P Area)												
Noise Barrier Works												
NB02920	NB61A (0-50m) - NB production	91%	45	500	20-Feb-16 A	03-Aug-17	630					

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017			
								Jun	Jul	Aug	Sep
NB02930	NB61A (0-50m) - NB post & panel installation	0%	5	5	04-Aug-17	09-Aug-17	511				
NB02970	NB61A ID2-3 (50-75m) - Footing & Wall Structure	91.59%	57	678	01-Apr-15 A	25-Aug-17	457				
NB02980	NB61A ID2-3 (50-75m)- backfilling	0%	20	20	26-Aug-17	18-Sep-17	472				
NB02990	NB61A ID2-3 (50-75m) - NB production	0%	45	45	26-Aug-17	09-Oct-17	563				
NB03040	NB61A (75-190m) - NB production	96.81%	15	470	20-Feb-16 A	04-Jul-17	660				
NB03050	NB61A (75-190m) - NB post & panel installation	0%	5	5	05-Jul-17	10-Jul-17	537				
Box Culvert ID3 Works											
VO58 Extension of ID3											
ID30140	Wing Wall Construction	0%	75	75	01-Sep-17*	30-Nov-17	358				
Fanling Highway Construction											
Drainage & Road Works											
Ch 5880-6740											
RDZ41190	Z2 (CH5880-6740) : Fanling Highway Road works Start	0%	0	0	10-Aug-17		6				◆ Z2 (CH5880-6740) : Fanling Highway
RDZ41230	Z2 (CH5880-6740) : Fanling Highway N/B - D&R works (lane 4)	0%	40	40	10-Aug-17	25-Sep-17	6				
Other Works											
Site Clearance & Demolition of Existing Structure											
Contract Condition											
MCLT1090	New MCLT - finishes works	80.22%	72	364	20-May-16 A	12-Sep-17	482				
MCLT1100	New MCLT completion	0%	0	0		12-Sep-17	482				12-Sep-17* ◆ New
TCSS Works											
G54											
TCSS1500	Slow lane footing - G54 (NB61)	0%	0	0		07-Sep-17	456				07-Sep-17 ◆ Slow lane
South Buffer Zone 1 (SBZ1) (within Zone 2)(Ch.6740 to 6930)											
Noise Barrier Along TWSR-West and Laying New Utilities											
NB63A (Ch.6710-6840)-TWSR West Side											
Noise Barrier Works											
NB01200	NB63A-3 - NB post installation	88.89%	24	216	17-Sep-16 A	18-Jul-17	530				
NB64 & NB64A (Ch.6860-6920)-TWSR West Side											
Noise Barrier Works											
NB003060	NB64A -Footing & Wall Structure - 1 bays	0%	35	35	20-Jun-17	31-Jul-17	479				
NB003350	Bus Shelter footing & shelter near NB64 - VO86	0%	40	40	01-Aug-17	15-Sep-17	479				
Bridge Construction											
Kau Lung Hang Vehicular Bridge											
KLH Bridge - West Ramp											
KLH.1290	West Ramp - Planting	0%	21	21	20-Jun-17	14-Jul-17	533				
KLH Bridge - Deck 1											
KLH.3430	Deck 1 - Planting	0%	21	21	20-Jun-17	14-Jul-17	533				
KLH Bridge - Deck 3											
KLH.3500	Deck 3 - Planting	0%	21	21	20-Jun-17	14-Jul-17	565				
KLH Bridge - East Ramp											
KLH.3590	East Ramp - Planting	0%	34	34	20-Jun-17	29-Jul-17	873				
KLH Bridge - Ramp R1											
Z2.KLH.3610	Ramp R1 - Steel roof	89.22%	11	102	19-Jan-17 A	03-Jul-17	543				
KLH Bridge - Ramp R2											
Z2.KLH.1550	Ramp R2 - Steel roof	76.47%	16	68	14-Mar-17 A	08-Jul-17	538				
Bridge Road Work											
Z2.KLH.2040	Landscape work of KLHVB	0%	120	120	20-Jun-17	10-Nov-17	434				
Lift at TWSR-W Side											
L01040	Temp work & Pile cap	0%	45	45	20-Jun-17	11-Aug-17	314				
L01050	Lift pit	0%	24	24	12-Aug-17	08-Sep-17	314				
L01060	Lift shaft & roof	0%	52	52	09-Sep-17	11-Nov-17	314				
L01094	Lift submission & ordering period	68.44%	107	339	01-Aug-16 A	25-Oct-17	358				
L01140	CLP Power available (by CLP)	92.57%	33	444	04-Apr-16 A	22-Jul-17	622				
Lift at FLHY S/B											
L01200	Temp work & Pier cap	71.43%	22	77	10-Mar-17 A	15-Jul-17	322				
L01210	Lift pit	0%	30	30	17-Jul-17	19-Aug-17	322				
L01220	Lift shaft & roof	0%	90	90	21-Aug-17	06-Dec-17	322				
L01300	CLP Power available (by CLP)	81.39%	94	505	04-Apr-16 A	21-Sep-17	567				
TWSR-West Construction											
Drainage & Road Works											
General											
RDZ20130	Z2: S3: Connection of realigned TWSR-W at interface Zone 2 & 3	0%	60	60	20-Jun-17	29-Aug-17	5				
Noise Barrier Along Fanling Highway S/B											
NB62 (Ch.6745-6910)-FH S/B Side (MTRC I&P Area)											
Noise Barrier Works											
NB03090	NB62 (0-80m) - Footing & Wall Structure	67.22%	59	180	12-Dec-16 A	28-Aug-17	455				
NB03100	NB62 (0-80m) - backfilling	37.61%	68	109	27-Mar-17 A	07-Sep-17	481				
NB03110	NB62 (0-80m) - NB production	0%	45	45	29-Aug-17	12-Oct-17	560				
NB03130	NB62 (80-110m) Under bridge - Sheet piling & Excavation	0%	12	12	20-Jun-17*	04-Jul-17	424				
NB03140	NB62 (80-110m) Under bridge - Footing & Wall Structure	0%	25	25	05-Jul-17	02-Aug-17	477				
NB03150	NB62 (80-110m) Under bridge - backfilling	0%	14	14	03-Aug-17	18-Aug-17	498				
NB03160	NB62 (80-110m) Under bridge - NB production	0%	45	45	03-Aug-17	16-Sep-17	586				
NB03170	NB62 (80-110m) Under bridge - NB post & panel installation	0%	5	5	18-Sep-17	22-Sep-17	473				
NB03180	NB62 (110-170m) - Sheet piling & Excavation	0%	18	18	05-Jul-17	25-Jul-17	424				
NB03190	NB62 (110-170m) - Footing & Wall Structure	0%	60	60	26-Jul-17	04-Oct-17	424				

Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
NB70 (Ch.6910-6930)-FH S/B Side												
Noise Barrier Works												
NB03290	NB70- NB post & panel installation	0%	5	5	20-Jun-17	24-Jun-17	549					
Fanling Highway Construction												
Drainage & Road Works												
Ch 6740-6930												
RDZ20470	Z2 (Ch6740-6930) : Fanling Highway N/B - D&R works (lane 4)	0%	24	24	10-Aug-17	06-Sep-17	82					
North Buffer Zone 2 (NBZ2) (within Zone 4) (Ch. 7925 to 8100)												
Bridge Construction												
New Ho Ka Yuen Footbridge												
TWSR-West/ FL Highway N/B Side Section												
HKY1273	Erect Staircase (HKY-TWSR-W side)	0%	30	30	20-Jun-17	25-Jul-17	556					
HKY1440	Remaining Finishes works of HKYFB	62.61%	83	222	21-Nov-16 A	25-Sep-17	458					
TWSR-East FL Highway S/B Side Section												
HKY1870	Steel Ramp finishes work (HKYFB-TWSR-E side)	85.15%	30	202	13-Oct-16 A	25-Jul-17	556					
Other Works												
Slope Works												
TWSR-East FL Highway S/B Side Section												
S1000	Slope S51-Fill -3m	37.5%	40	64	20-Apr-17 A	05-Aug-17	510					
ZONE 4 (Ch. 7925 to 8700)												
Noise Barrier Along Fanling Highway N/B												
NB75 (Ch.7930-8090)-FH N/B Side												
Noise Barrier Works												
NB4070	NB75 - backfilling (Ch7930-7990)	0%	20	20	20-Jun-17	13-Jul-17	93					
NB4080	NB75 - NB production (Ch7930-7990)	0%	45	45	20-Jun-17	03-Aug-17	165					
NB4090	NB75 - NB post & panel installation (Ch7930-7990)	0%	5	5	04-Aug-17	09-Aug-17	135					
NB4120	NB75 - Footing & Wall Structure (Ch7990-8000) & G34	0%	30	30	08-Jun-17 A	25-Jul-17	111					
NB4130	NB75 - backfilling (Ch7990-8000)	0%	12	12	26-Jul-17	08-Aug-17	111					
NB4140	NB75 - NB production (Ch7990-8000)	0%	45	45	26-Jul-17	08-Sep-17	135					
NB4150	NB75 - NB post & panel installation (Ch7990-8000)	0%	5	5	09-Sep-17	14-Sep-17	109					
NB4180	NB75 - Footing & Wall Structure (Ch8000-8050)	74%	13	50	08-Jun-17 A	05-Jul-17	100					
NB4190	NB75 - backfilling (Ch8000-8050)	0%	20	20	14-Jul-17	05-Aug-17	93					
NB4200	NB75 - NB production (Ch8000-8050)	0%	45	45	06-Jul-17	19-Aug-17	155					
NB4210	NB75 - NB post & panel installation (Ch8000-8050)	0%	5	5	21-Aug-17	25-Aug-17	126					
NB4240	NB75 - Footing & Wall Structure (Ch8050-8090)	0%	50	50	20-Jun-17 A	17-Aug-17	83					
NB4250	NB75 - backfilling (Ch8050-8090)	0%	20	20	18-Aug-17	09-Sep-17	83					
NB4260	NB75 - NB production (Ch8050-8090)	0%	45	45	18-Aug-17	01-Oct-17	112					
NB4580	NB75 backfilling complete	0%	0	0		09-Sep-17	83					09-Sep-17 ◆ NB75 b
NB77 (Ch.8090-8450)-FH N/B Side												
Noise Barrier Works												
NB4310	NB77 - Footing & Wall Structure (Ch8090-8190)	0%	80	80	20-Jun-17	21-Sep-17	3					
NB4370	NB77 - Footing & Wall Structure (Ch8190-8290)	0%	80	80	01-Aug-17	04-Nov-17	3					
NB4420	NB77 - piling (NB77/18-26, 0.19m -36no)	77.5%	9	40	08-Apr-17 A	29-Jun-17	6					
NB4430	NB77 - Footing & Wall Structure (Ch8290-8390)	0%	90	90	11-Sep-17	29-Dec-17	3					
NB4470	NB77 -Pre-drilling (Ch8390-8450)& G35	55%	9	20	20-May-17 A	29-Jun-17	0					
NB4475	NB77 - piling (NB77/27 - 28, 0.19m -8no)	0%	6	6	30-Jun-17	07-Jul-17	0					
NB4480	NB77 - piling (NB77/N1- N2, 0.19m -24no) (confirming design by	0%	14	14	08-Jul-17	24-Jul-17	0					
NB4482	NB77 - Footing & Wall Structure (NB77/27 - 30) (Ch8390-8450)	0%	70	70	19-Aug-17	11-Nov-17	0					
NB4485	NB77 - piling (NB77/32, S2- 32, 0.19m -14no) & G35 (8nos)	0%	22	22	25-Jul-17	18-Aug-17	0					
Bridge Construction												
New Wo Hop Shek Pedstrian & Cycle Bridge												
General												
WHS1140	Existing Wo Hop Shek Bridge Demolished	0%	0	0		13-Jul-17	520					13-Jul-17 ◆ Existing Wo Hop Shek Bridge Demolished
TWSR-West/ FL Highway N/B Side Section												
WHS1380	WHSAB2, P8, P9 - pile cap & abutment wall	0%	90	90	20-Jun-17	04-Oct-17	254					
WHS2040	Potential VO for WHS Ramp modification (1st stage)	0%	0	0	10-Jul-17*		0					◆ Potential VO for WHS Ramp modification (1st stage)
WHS2100	Shop Drawing preparation, submission & approval	0%	90	90	10-Jul-17	24-Oct-17	138					
WHS2110	Material procurement & testing	0%	60	60	14-Aug-17	24-Oct-17	138					
Crossing Fanling Highway Section												
WHS1510	TTA for new WHS bridge submission & approval	0%	60	60	10-Jul-17	16-Sep-17	474					
WHS1520	Remove railing	0%	12	12	18-Sep-17	30-Sep-17	474					
Demolition of Existing Wo Hop Shek Pedstrian & Cycle Bridge												
TWSR-East FL Highway S/B Side Section												
WHS1840	Demolish existing WHS Footbridge abutment wall at W77A (Instructed	0%	20	20	20-Jun-17	13-Jul-17	34					
Slip Road Y Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41060	Construct Slip Rd Y - 1st Lane (Ch8370-8650)(SA340) (Z4	0%	100	100	14-Jul-17	10-Nov-17	34					
Underground Utility Works												
DN600 and DN900 Watermain												
DN1070	DN600 watermain laying (Ch8400 - 8600) (W77A to	0%	110	110	15-Jul-17	23-Nov-17	455					
VO - Wall 76A Construction												
Retaining Wall W76A												
TWSR-East FL Highway S/B Side Section												
W76A1050	Drainage work for Caltex access road	0%	150	150	20-Jun-17	15-Dec-17	286					

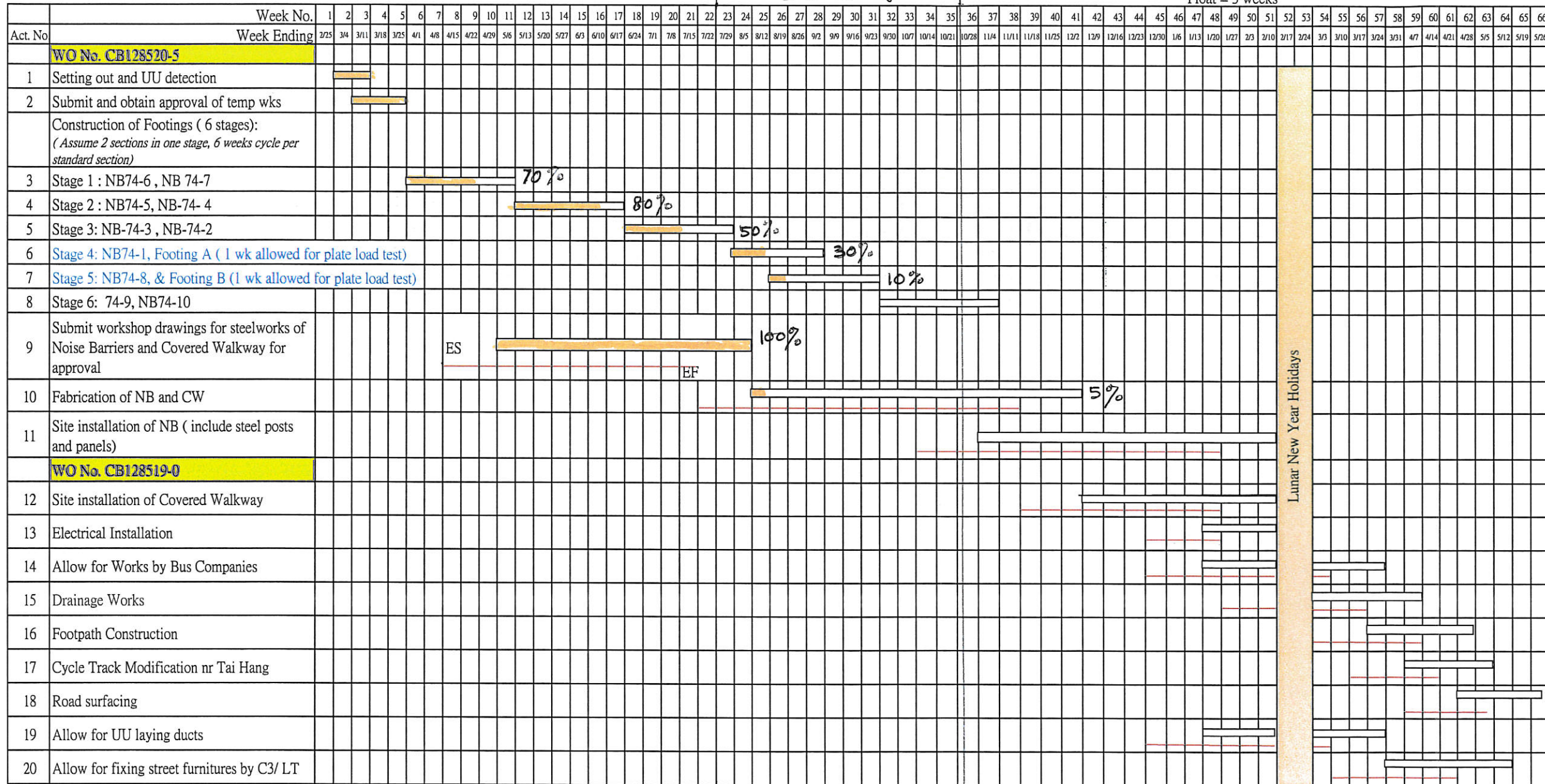
Activity ID	Activity Name	Dur. % Complete	Rem. Duration	Original Duration	Start	Finish	Total Float	2017				
								Jun	Jul	Aug	Sep	
Fanling Highway Construction												
Drainage & Road Works												
TWSR-East FL Highway S/B Side Section												
RDZ41086	Construct FH S/B Lane 1 & 2 (Ch7925-8000)(SA346) (after HKY)	0%	145	145	20-Jun-17	09-Dec-17	98					
RDZ41102	Construct FH N/B Lane 1 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41104	Construct FH N/B Lane 2 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41106	Construct FH N/B Lane 3 (at NBZ2)	0%	90	90	11-Sep-17	29-Dec-17	83					
RDZ41108	Construct FH N/B Lane 4 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	82					
RDZ41121	Drainage work at central divider (at NBZ2)	60.34%	71	179	01-Feb-17 A	11-Sep-17	2					
RDZ41122	Construct FH S/B Lane 3 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	32					
RDZ41124	Construct FHS/B Lane 4 (at NBZ2)	0%	90	90	12-Sep-17	30-Dec-17	32					
RDZ41131	Drainage work at central divider (Ch8100-8600)	0%	150	150	08-Aug-17	05-Feb-18	2					
Other Works												
Retaining Wall W77A												
TWSR-East FL Highway S/B Side Section												
RWZ4.1080	Base slab & Wall (3-7m high)- RW77A(Ch.0-20)	61.02%	23	59	01-Apr-17 A	17-Jul-17	101					
RWZ4.1090	Backfilling (3-7m high) - RW77A (Ch.0-20)	0%	50	50	26-Jul-17	21-Sep-17	74					
RWZ4.1150	Backfilling (0-3m) - RW77A (Ch.92-120)	73.45%	30	113	01-Feb-17 A	25-Jul-17	74					
RWZ4.1170	Base slab & Wall (0-3m high)- RW77A last 1 bay at CH120	0%	21	21	26-May-17 A	14-Jul-17	103					
RWZ4.1180	DN600 pipe installation ready to start	0%	0	0	15-Jul-17		455					
Retaining Wall W77B												
TWSR-East FL Highway S/B Side Section												
RWZ4.1100	Base slab & Wall (0-3m high)- RW77B (Ch 0-23)	85.71%	15	105	20-Jan-17 A	07-Jul-17	74					
RWZ4.1110	Backfilling (0-3m) - RW77B (Ch 0-23)	0%	30	30	08-Jul-17	11-Aug-17	74					
RWZ4.1130	Backfilling (3-4m high) - RW77B (Ch.23-75)	0%	35	35	12-Aug-17	21-Sep-17	74					
TCSS Works												
TCSS Pre-Construction Works												
TCSS0120	Prepare Shop Drawing-TCSS	0%	45	45	20-Jun-17	11-Aug-17	62					
TCSS0130	Shop Drawing Comment & Approval	0%	21	21	12-Aug-17	01-Sep-17	75					
TCSS0140	Revised & Re-submission TCSS shop Drawing	0%	18	18	02-Sep-17	22-Sep-17	61					
G34												
TCSS1520	Slow lane footing - G34 (NB75)	0%	0	0		13-Jul-17	294					
G35												
TCSS1560	Fast lane footing - G35 (CH8410, N/B)	0%	5	5	20-Jun-17	24-Jun-17	459					
DS50												
TCSS1600	Slip road island footing - DS50 (CH7940, S/B)	0%	30	30	20-Jun-17	25-Jul-17	344					
TCSS1610	Fast lane footing - DS50 (CH7940, S/B)	0%	5	5	12-Sep-17	16-Sep-17	298					
FVMS2 (Deleted by RFI-138, Pending for VO)												
TCSS1640	Slow lane footing - FVMS2 (CH8400, S/B)- Deleted by RFI-138	0%	30	30	20-Jun-17	25-Jul-17	404					
TCSS1650	Fast lane footing - FVMS2 (CH8400, S/B)	0%	30	30	20-Jun-17	25-Jul-17	404					

progress as on 23/7/2017

CHIU HING CONSTRUCTION AND TRANSPORTATION CO. LTD.
 Contract No. 02/HY/2015
 Works Order Nos: CB128519-0 & CB128520-5
 Programme of Construction of Noise Barrier and Pedestrian Covered Walkway at Tai Wo Service Road East near Ho Ka Yuen

Rev	Date	Description
00	28/02/17	initial issue
01	29/03/17	refer RE's comments
02	22/5/17	add plate load test program

- Programmed Duration
 - Actual Progress
 - Critical Path Activities
 - Early Start & Early Finish
- Float = 3 weeks



Cycle time for standard section :

Item	Activity	Approx Qty	Days for Construction (Calendar Days)
1	Sheet-piling with struts	24 x 7 = 168M2	10 days
2	Excavation	12 x 6 x 6 = 432 M	7 days
3	Rock Fill (assumed)	12 x 2 = 24 M3	2 days
4	Blinding Layer		1 day
5	Fwk-Rebar- Concreting	110 M 3	10 days **
6	Posts for Covered Walkway		7 days ##
7	Backfilling	290M 3	5 days
			Total = 42 days

** Breakdown of Item 5

	Base Slab calendar days	Stem calendar days
Fwk	1	2
Re-bar	1	3
Concreting	1	1
Remove Fwk		1
Total :	10 days	

Breakdown of Item 6

	Posts calendar days
Fwk	2
Re-bar	3
Concreting	1
Remove Fwk	1
Total :	7 days

**APPENDIX C
IMPLEMENTATION SCHEDULE OF
ENVIRONMENTAL MITIGATION MEASURES
(EMIS)**

Appendix C - Implementation Schedule of Environmental Mitigation Measures (EMIS)

Air Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Air Quality during construction	Restricting heights from which materials are dropped, as far as practicable to minimize the fugitive dust arising from unloading/loading.	During construction	V	V	V	V	V	V
	All stockpiles of excavated materials or spoil of more than 50m ³ shall be enclosed, covered or dampened during dry or windy conditions.		@	@	@	@	@	@
	Effective water sprays shall be used to control potential dust emission sources such as unpaved haul roads and active construction areas.		@	V	V	V	V	V
	All spraying of materials and surfaces shall avoid excessive water usage.		V	V	V	V	V	V
	Vehicles that have the potential to create dust while transporting materials shall be covered, with the cover properly secured and extended over the edges of the side and tail boards.		V	V	V	V	V	V
	Materials shall be dampened, if necessary, before transportation.		V	V	V	V	V	V
	Travelling speeds shall be controlled to reduce traffic induced dust dispersion and re-suspension within the site from the operating haul trucks.		V	V	V	V	V	V
	Vehicle washing facilities shall be provided to minimize the quantity of material deposited on public roads.		@	V	V	@	@	V

Noise – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Noise during construction	Use of silenced plant or plant equipped with mufflers or dampers in substitute of ordinary plant.	During construction	V	V	V	V	V	V
	Reduce the number of equipment and their percentage on-time.		V	V	V	V	V	V
	3.5 m and 5.5 m high temporary noise barrier at culvert construction work area (Figure 2a of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3 m high temporary noise barrier along the northern edge of Bridge 12 at ground level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2 m high temporary noise barrier along the northern edge of Bridge 12 at bridge level (Figure 2b of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier along Tai Wo Service Road West (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	3.5m and 7m high temporary noise barrier along Tai Wo Services Road West near Tai Hang (Figure 2c of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier along Tai Wo Service Road West near Tai Wo Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	7 m high temporary noise barrier near Kiu Tau Footbridge work area (Figure 2d of the Environmental Permit).		V	V	V	N.A.	N.A.	N.A.
	2.5 m high temporary noise barrier near river diversion work area (Figure 2e of the Environmental Permit).		N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Water Quality – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Water quality during construction	Demolition and reconstruction of bridges <ul style="list-style-type: none"> - Prevent off-site migration through use of sheet piles. - Minimise duration of works as far as practical. - All sewer and drainage connections should be sealed to prevent debris, soil, sand, etc, from entering public sewers/drains. - Site surface runoff should be settled to remove sand/silt before it is discharged into the existing storm drains. 	During construction	V	@	V	N.A.	N.A.	N.A.
	Road Widening Works, Earthworks and Culvert Extension Works <ul style="list-style-type: none"> - Wastewater generated from any concrete batching washdown of equipment or similar activities should be discharged into foul sewers, after the removal of settleable solids, and pH adjustment as necessary. All sewage discharges from the study area should meet the TM standards and approval from EPD through the licensing process is required. - Sand traps, oil interceptors and other pollution prevention installations should be provided, properly cleaned and maintained. - Runoff from exposed working areas, unfinished slopes and from unlined temporary channels should be directed to stilling basins and/or silt traps before discharging to the drainage outfalls. - Regular inspections of stilling basins and/or silt traps is required to ensure that sediment is not conveyed into the existing drainage system. - Open stockpiles should be covered with a tarpaulin cover. - During the wet season, any exposed top soils should be covered with a tarpaulin, shotcreted or hydroseeded. - Sand and silt from wash-water from vehicle washing should be settled out before discharging into storm drains. - Fuels should be stored in bunded areas such that spillage can be easily collected. 		@	@	@	@	@	@

Waste – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Waste management during construction	General Waste - Transport of wastes off site as soon as possible. - Maintenance of accurate waste records. - Minimisation of waste generation for disposal (via reduction/recycling/re-use). - No on-site burning will be permitted. - Use of re-useable metal hoardings/signboards.	During construction	@	@	V	V	V	V
	Vegetation from site clearance - Segregation of materials to facilitate disposal. - Mulching to reduce bulk and where possible review opportunities for the possible beneficial use within landscaping areas.		V	V	V	V	V	V
	Demolition Wastes - Segregation of materials to facilitate disposal. - Appropriate stockpile management.		V	V	V	V	V	V
	Excavated Materials - Segregation of materials to facilitate disposal / reuse. - Appropriate stockpile management. - Re-use of excavated material on or off site (where possible). - Special handling and disposal procedures in the event that contaminated materials are excavated.		V	V	V	V	V	V
	Construction Wastes - Segregation of materials to facilitate recycling/reuse (within designated area in appropriate containers/stockpiles). - Appropriate stockpile management. - Planning to reduce over ordering and waste generation. - Recycling and re-use of materials where possible (e.g. metal, wood from formwork) - For material which cannot be re-used/recycled, collection should be carried out by an approved waste contractor for landfill disposal.		@	@	@	V	V	V

<p>Bentonite Slurries</p> <ul style="list-style-type: none"> - Bentonite slurries should be reused as far as possible. - Disposal in accordance with Practice Note For Professional Persons ProPECC PN 1/94. 		#	#	#	N.A.	N.A.	N.A.
<p>Chemical Wastes</p> <ul style="list-style-type: none"> - Storage within locked, covered and bunded area. - The storage area shall not be located adjacent to sensitive receivers e.g. drains. - Minimise waste production and recycle oils/solvents where possible. - A spill response procedure shall be in place and absorption material available for minor spillages. - Use appropriate and labelled containers. - Educate site workers on site cleanliness/waste management procedures. - If chemical wastes are to be generated, the contractor must register with EPD as a chemical waste producer. - The chemical wastes shall be collected by a licensed chemical waste collector. 		@	@	V	N.A.	N.A.	N.A.
<p>Municipal Wastes</p> <ul style="list-style-type: none"> - Waste shall be stored within a temporary refuse collection facility, in appropriate containers prior to collection and disposal. - Regular, daily collections are required by an approved waste collector. 		V	V	V	V	V	V

Ecology – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Ecology during construction	<p>Accurate Delineation of Works Area</p> <ul style="list-style-type: none"> - Boundaries of proposed works areas shall be clearly identified and separated from external areas by a physical barrier to prevent encroachment of adjacent habitats. - Individual trees which fall within the works areas but which work plans do not require removal are to be retained and fenced off to maximize protection. 	During construction	V	V	V	V	V	V
	<p>Vegetation Clearance</p> <ul style="list-style-type: none"> - No fires shall be lit within the works area for the purpose of burning cleared vegetation. - The Contractor shall give consideration to mulching the cleared vegetation for recycling within the works area / adjacent land. 		V	V	V	V	V	V
	<p>Dust generation</p> <p>There are a number of measures which shall be taken as specified in the Air Pollution Control (Construction Dust) Regulation on 'Dust Control Requirements, including the following key measures to be applied during construction:</p> <ul style="list-style-type: none"> - Vehicle washing facilities to be provided at every discernible or designated vehicle exit point; - All temporary site access roads shall be sprayed with water to suppress dust as necessary; - All dusty materials should be sprayed with water immediately prior to any handling; and - All debris should be covered entirely by impervious sheeting or stored in a sheltered debris collection area. 		@	@	@	V	V	@

	<p>Surface Run-off In general, mitigation measures shall be in accordance with ProPECC PN1/94 on 'Construction Site Drainage'. Key measures include:</p> <ul style="list-style-type: none"> - Bund and cover stock piles to avoid run-off; - Channel any run-off through a system of oil, grease and sediment / silt traps and reuse water on site where ever practical; - All vehicle maintenance to be undertaken within a bunded area; and - Maximise vegetation retention on-site to maximise absorption (minimise transport). 		@	@	@	V	V	@
--	---	--	---	---	---	---	---	---

Landscape and Visual Impact – Schedule of Recommended Mitigation Measures

Impact	Mitigation Measures	Timing	Implementation Status					
			HY/2012/06			02/HY/2015		
			May 17	Jun 17	Jul 17	May 17	Jun 17	Jul 17
Landscape & Visual during construction	Preservation of Existing Vegetation - Trees identified for retention within the project limit would be protected during the works; - The tree transplanting and planting works shall be implemented by approved Landscape Contractors.	During construction	V	V	V	V	V	V
	Temporary Works Areas - Where feasible the works areas would be screened using hoarding and existing vegetation would be retained where possible to reduce the landscape and visual impacts arising from the construction activity. The landscape of these works areas would be restored following the completion of the construction phase.		V	V	V	V	V	V
	Hoarding - A hoarding would be erected where practicable in the most visually sensitive locations to screen the temporary construction works from the local VSRs.		V	V	V	N.A.	N.A.	N.A.
	Top Soils - The works will result in disturbance to extensive areas of topsoil. Topsoil worthy of retention should be stockpiled for use following completion of the civil engineering works. It should either be temporarily vegetated with hydroseeded grass or turned over on a regular basis.		#	#	#	N.A.	N.A.	N.A.
	Protection of Important Landscape Features - Important features such as temples, Island House and kilns within the study area, although remote from the proposed works retained and adequately protected.		#	#	#	N.A.	N.A.	N.A.

Legend:

- V = implemented;
- x = not implemented;
- @ = partially implemented;
- + = recommended and immediately implemented during the site inspection by the Contractor;
- N/A = not applicable - No such work was undertaken or no such material was used on site;
- # = to be implemented.

**APPENDIX D
SUMMARY OF ACTION AND LIMIT LEVELS**

Appendix D - Summary of Action and Limit Levels

Table 1 – Action and Limit Levels for 1-hour TSP

Location	Action Level	Limit Level
AM2	317.8 µg/m ³	500 µg/m ³

Table 2 – Action and Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AM2	200.7 µg/m ³	260 µg/m ³

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdays)

Location	Action Level	Limit Level
M2	When one documented complaint, related to 0700 – 1900 hours on normal weekdays, is received from any one of the sensitive receivers	75 dB(A)
M3*		65/70 dB(A)

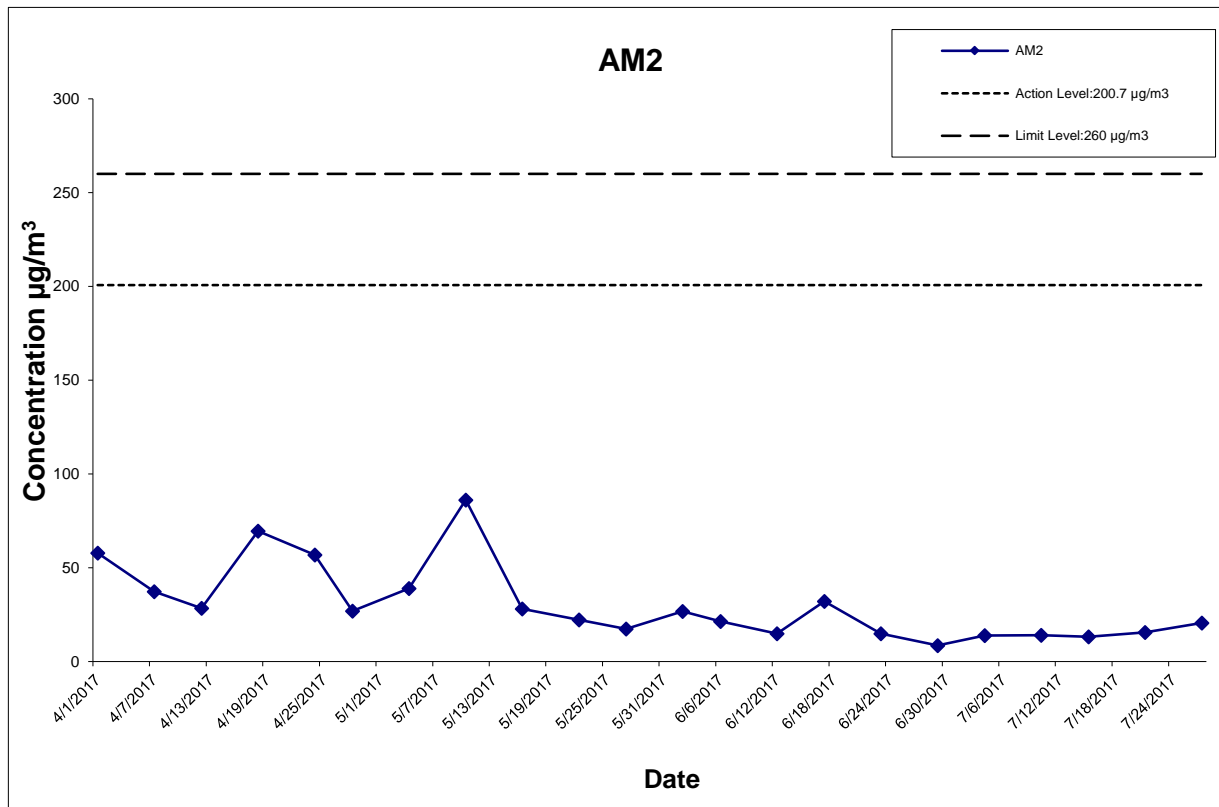
*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period

**APPENDIX E
IMPACT AIR QUALITY MONITORING
RESULTS AND THEIR GRAPHICAL
PRESENTATION**

Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Weather Condition	Air Temp. (°C)	Atmospheric Pressure(hPa)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m ³)	Actino Level (µg/m ³)	Limit Level (µg/m ³)
				Initial	Final			Initial	Final		Initial	Final				
1-Apr-17	Rainy	18.7	1019.9	1.314	1.314	1.314	1892.2	2.7876	2.8969	0.1093	8490.03	8514.03	24.00	57.8	200.7	260
7-Apr-17	Sunny	24.5	1012.4	1.314	1.314	1.314	1892.2	2.8490	2.9196	0.0706	8514.03	8538.03	24.00	37.3	200.7	260
12-Apr-17	Fine	20.6	1013.2	1.314	1.314	1.314	1892.2	2.8634	2.9172	0.0538	8538.03	8562.03	24.00	28.4	200.7	260
18-Apr-17	Fine	26.7	1008.9	1.314	1.314	1.314	1892.2	2.8453	2.9769	0.1316	8562.03	8586.03	24.00	69.6	200.7	260
24-Apr-17	Rainy	21.5	1014.3	1.314	1.314	1.314	1892.2	2.8278	2.9354	0.1076	8586.02	8610.02	24.00	56.9	200.7	260
28-Apr-17	Cloudy	21.8	1015.2	1.314	1.314	1.314	1892.2	2.8445	2.8955	0.0510	8634.02	8658.02	24.00	27.0	200.7	260
4-May-17	Cloudy	24.9	1011.9	1.314	1.314	1.314	1892.2	2.7842	2.8579	0.0737	8658.02	8682.02	24.00	39.0	200.7	260
10-May-17	Sunny	27.1	1013.8	1.314	1.314	1.314	1892.2	2.7655	2.9286	0.1631	8682.02	8706.02	24.00	86.2	200.7	260
16-May-17	Rainy	25.0	1007.6	1.314	1.314	1.314	1892.2	2.7836	2.8367	0.0531	8706.02	8730.02	24.00	28.1	200.7	260
22-May-17	Cloudy	24.6	1008.1	1.314	1.314	1.314	1892.2	2.7912	2.8333	0.0421	8730.02	8754.02	24.00	22.2	200.7	260
27-May-17	Sunny	26.1	1010.0	1.314	1.314	1.314	1892.2	2.7727	2.8057	0.0330	8754.02	8778.02	24.00	17.4	200.7	260
2-Jun-17	Fine	29.4	1002.6	1.314	1.314	1.314	1892.2	2.7870	2.8378	0.0508	8778.02	8802.02	24.00	26.8	200.7	260
6-Jun-17	Sunny	30.4	1009.2	1.314	1.314	1.314	1892.2	2.8039	2.8444	0.0405	8802.02	8826.02	24.00	21.4	200.7	260
12-Jun-17	Sunny	27.6	1001.9	1.314	1.314	1.314	1892.2	2.7907	2.8188	0.0281	8826.02	8850.02	24.00	14.9	200.7	260
17-Jun-17	Rainy	25.5	1003.7	1.314	1.314	1.314	1892.2	2.8192	2.8799	0.0607	8850.02	8874.02	24.00	32.1	200.7	260
23-Jun-17	Sunny	28.9	1007.7	1.314	1.314	1.314	1892.2	2.7972	2.8254	0.0282	8874.02	8898.02	24.00	14.9	200.7	260
29-Jun-17	Sunny	29.6	1009.7	1.314	1.314	1.314	1892.2	2.8090	2.8253	0.0163	8898.02	8922.02	24.00	8.6	200.7	260
4-Jul-17	Sunny	26.5	1008.4	1.314	1.314	1.314	1892.2	2.8314	2.8577	0.0263	8922.02	8946.02	24.00	13.9	200.7	260
10-Jul-17	Sunny	29.4	1008.5	1.314	1.314	1.314	1892.2	2.8306	2.8573	0.0267	8946.02	8970.02	24.00	14.1	200.7	260
15-Jul-17	Rainy	32.1	1007.4	1.314	1.314	1.314	1892.2	2.8104	2.8354	0.0250	8970.02	8994.02	24.00	13.2	200.7	260
21-Jul-17	Sunny	29.3	1009.4	1.314	1.314	1.314	1892.2	2.8063	2.8356	0.0293	8994.02	9018.02	24.00	15.5	200.7	260
27-Jul-17	Sunny	29.0	1003.4	1.314	1.314	1.314	1892.2	2.7580	2.7969	0.0389	9018.02	9042.02	24.00	20.6	200.7	260
Average for the reporting quarter (May 17 to Jul 17)													24.3			
Minimum for the reporting quarter (May 17 to Jul 17)													8.6			
Maximum for the reporting quarter (May 17 to Jul 17)													86.2			



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE

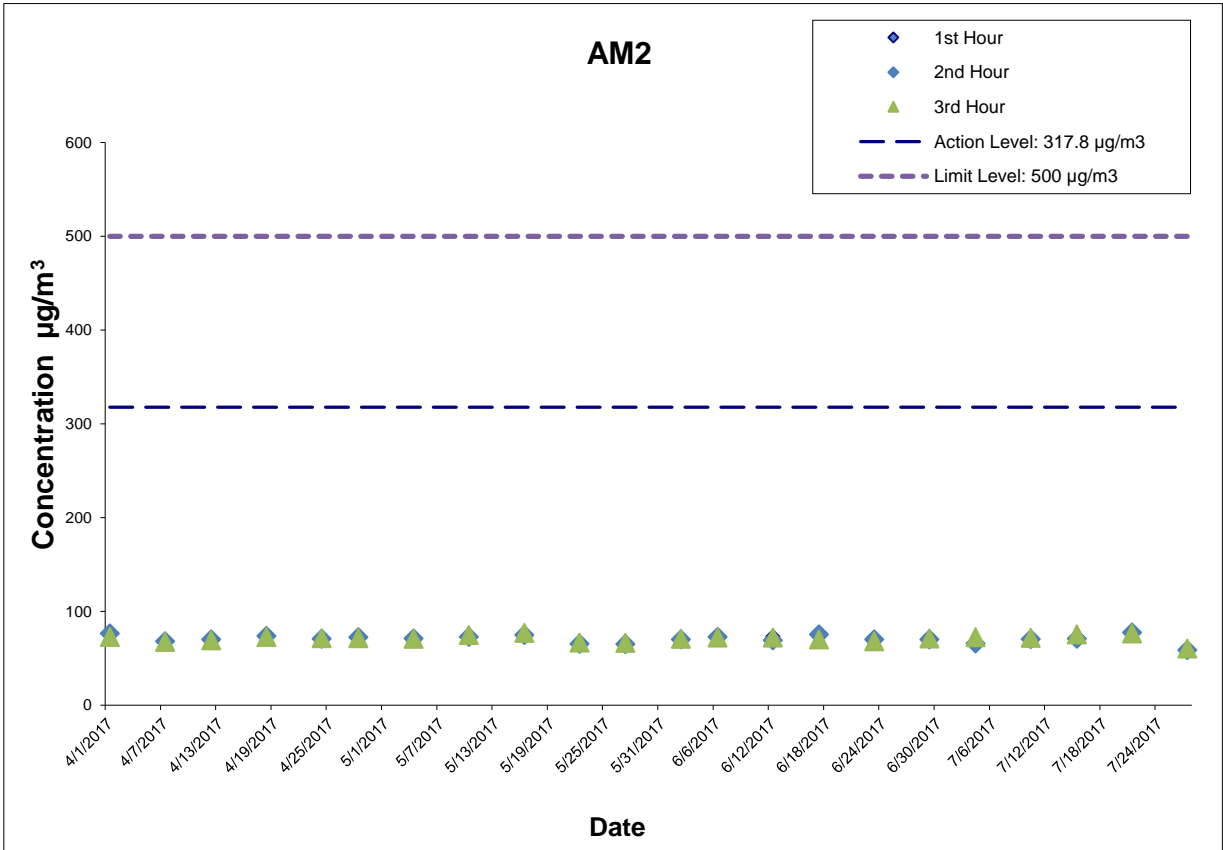


Graphical Presentation of Impact 24-hour TSP Monitoring Results

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AM2 (Fanling Government Secondary School)

Date	Start Time (hh:mm)	1st Hour	2nd Hour	3rd Hour
		Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
1-Apr-17	10:15	75.1	76.6	72.8
7-Apr-17	13:05	66.7	68.1	67.5
12-Apr-17	14:05	68.4	70.1	69.4
18-Apr-17	13:12	73.6	74.1	72.9
24-Apr-17	13:45	69.6	70.9	71.7
28-Apr-17	9:56	74.4	72.5	71.6
4-May-17	13:10	70.6	71.2	70.8
10-May-17	11:20	73.8	72.9	74.8
16-May-17	13:05	73.6	74.8	77.2
22-May-17	11:35	66.2	65.5	66.9
27-May-17	11:00	66.0	65.3	66.7
2-Jun-17	13:29	68.9	70.2	71.1
6-Jun-17	10:48	72.2	73.1	72.4
12-Jun-17	13:00	73.2	69.4	72.4
17-Jun-17	13:00	73.4	75.5	70.3
23-Jun-17	11:10	71.6	70.4	68.2
29-Jun-17	13:10	72.6	70.4	71.2
4-Jul-17	14:00	68.4	65.9	72.6
10-Jul-17	13:00	72.0	70.6	71.9
15-Jul-17	10:30	73.2	70.9	75.5
21-Jul-17	13:12	76.4	77.6	76.6
27-Jul-17	13:10	60.1	58.8	60.7
Average for the reporting quarter (May 17 to Jul 17)				70.7
Minimum for the reporting quarter (May 17 to Jul 17)				58.8
Maximum for the reporting quarter (May 17 to Jul 17)				77.6



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 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact 1-hour TSP Monitoring Results

Project No.: 60307376

Date: Aug-17

Appendix E

**APPENDIX F
METEROLOGICAL DATA**

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Daily Extract of Meteorological Observations , May 2017 - Tai Po

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1012.3	26.7#	23.7	21.3#	21.4	87	***	***	***
02	1011.5	27.1#	25.2	23.0#	23.5	90	***	***	***
03	1010.9	30.1	27.0	25.1	24.1	85	***	***	***
04	1011.6	26.7#	24.0	22.3#	23.5	97	***	***	***
05	1013.3	28.1#	25.0	21.7#	23.3	91	***	***	***
06	1014.5	30.0	26.8	23.8	23.8	84	***	***	***
07	1014.3	26.2	25.3	24.5	22.8	86	***	***	***
08	1011.6	27.1	24.9	21.7	23.0	89	***	***	***
09	1012.0	29.2#	25.1	21.6#	23.0	89	***	***	***
10	1013.5	28.8	26.1	24.1	24.0	89	***	***	***
11	1013.4	29.7	26.7	24.8	24.0	86	***	***	***
12	1010.4	30.9	27.6	25.2	22.7	76	***	***	***
13	1009.8	26.6	24.9	23.4	22.9	89	***	***	***
14	1010.0	28.5#	25.5	22.6#	23.9	91	***	***	***
15	1008.3	26.4	24.6	23.3	24.2	97	***	***	***
16	1007.4	25.5#	23.8	22.1#	22.4	92	***	***	***
17	1009.5	27.7	24.7	21.6	21.4	83	***	***	***
18	1011.9	26.2	24.8	23.4	20.7	78	***	***	***
19	1011.0	25.2	23.8	21.4	20.9	84	***	***	***
20	1008.7	24.4	23.2	21.9	22.1	93	***	***	***
21	1007.7	24.9	23.8	22.5	22.0	90	***	***	***
22	1008.0	24.9	24.4	23.9	23.1	93	***	***	***
23	1007.7	27.6	25.5	23.9	24.9	97	***	***	***
24	1006.7	25.8	24.8	23.8	24.6	99	***	***	***
25	1008.7	27.4	24.9	23.0	21.8	83	***	***	***
26	1010.2	25.6	23.8	21.9	20.6	83	***	***	***
27	1010.0	28.9	25.2	22.0	18.9	70	***	***	***
28	1009.5	29.3	26.3	24.0	20.2	70	***	***	***
29	1009.8	29.2	26.1	24.5	21.4	76	***	***	***
30	1009.2	29.3	26.2	24.8	23.2	84	***	***	***
31	1006.1	32.7	28.0	24.2	24.5	82	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Daily Extract of Meteorological Observations , May 2017 - Tai Mei Tuk

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	27.8#	23.9	21.3#	***	***	0.0	050	6.5
02	***	28.8	25.5	22.9	***	***	0.0	050	6.2
03	***	29.9	26.7	24.9	***	***	0.0	150	7.2
04	***	26.0	23.9	22.3	***	***	59.0	150	5.2
05	***	29.6	25.5	22.1	***	***	0.0	130	3.0
06	***	31.9	27.0	24.1	***	***	0.0	130	7.8
07	***	26.8#	24.9	24.0#	***	***	0.0	090	18.2
08	***	28.4#	24.9	21.7#	***	***	6.0	070	13.5
09	***	30.2#	25.8	21.7#	***	***	6.5	140	4.3
10	***	30.5#	26.7	24.4#	***	***	0.0	080	5.6
11	***	30.8#	27.0	24.7#	***	***	0.0	080	10.7
12	***	31.6	27.6	25.4	***	***	0.0	280	7.2
13	***	26.7	25.2	23.7	***	***	8.0	260	3.4
14	***	30.0#	26.1	23.0#	***	***	0.5	140	5.7
15	***	26.0	24.5	23.0	***	***	41.0	050	10.4
16	***	25.6#	23.8	21.7#	***	***	36.5	050	8.8
17	***	28.6#	25.0	22.3#	***	***	0.0	100	6.4
18	***	27.2#	24.4	22.4#	***	***	1.0	050	13.0
19	***	25.7#	23.6	21.5#	***	***	2.5	050	15.6
20	***	24.1#	23.0	21.6#	***	***	3.0	060	12.1
21	***	24.8#	23.6	22.5#	***	***	0.0	090	17.9
22	***	24.7	24.1	23.0	***	***	2.5	080	18.1
23	***	28.7#	25.5	23.9#	***	***	8.0	050	9.5
24	***	25.6#	24.7	23.5#	***	***	67.5	270	8.0
25	***	28.8#	25.1	22.7#	***	***	0.0	070	6.5
26	***	26.4	23.9	22.4	***	***	0.0	070	6.5
27	***	29.0#	25.3	22.5#	***	***	0.0	090	9.1
28	***	30.9	26.4	23.6	***	***	0.0	090	11.7
29	***	30.9	26.2	24.1	***	***	0.0	090	16.0
30	***	30.0#	26.0	24.2#	***	***	0.0	040	9.5
31	***	33.0	28.3	24.5	***	***	0.0	220	7.0

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Services](#)[> Climate Watch](#)[> Climate Statistics](#)[> Climate Prediction](#)[> Climate Knowledge](#)[> Need More](#)[Information?](#)[> Global Climate](#)[Services](#)[> Other Useful Links](#)[Climate Forecast](#)[Climate Change](#)[El Nino and La Nina](#)[Earthquakes and](#)[Tsunamis](#)[Astronomy, Space](#)[Weather and](#)[Geomagnetism](#)[Time and Calendar](#)[Radiation Monitoring,](#)[Assessment and](#)[Protection](#)[Educational Resources](#)[Publications](#)[Back](#)

Daily Extract of Meteorological Observations , June 2017 - Tai Po


 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1002.7	31.2	29.2	26.9	25.7	82	***	***	***
02	1001.9	32.2	30.0	28.9	26.2	80	***	***	***
03	1002.0	33.5	30.4	28.6	26.5	80	***	***	***
04	1003.1	31.8	29.9	28.8	26.5	83	***	***	***
05	1005.7	32.9	29.9	28.3	26.4	82	***	***	***
06	1008.7	31.5	29.3	27.5	26.2	84	***	***	***
07	1009.7	31.5	28.9	25.5	26.1	85	***	***	***
08	1009.6	31.5	29.2	26.8	26.1	84	***	***	***
09	1008.9	31.7	29.3	27.8	25.6	80	***	***	***
10	1008.0	32.1	29.2	27.1	25.9	83	***	***	***
11	1006.7	33.0	29.3	26.6	25.8	82	***	***	***
12	1002.1	29.5	27.2	24.8	25.8	92	***	***	***
13	1005.8	27.1	25.3	24.0	25.2	99	***	***	***
14	1008.6	27.7	26.4	23.7	25.7	96	***	***	***
15	1007.3	30.4	28.0	25.9	26.4	91	***	***	***
16	1004.9	29.1	27.8	25.1	26.4	93	***	***	***
17	1003.6	25.7	24.8	24.1	24.8	100	***	***	***
18	1004.6	27.5	25.5	24.1	25.0	97	***	***	***
19	1005.2	28.2	25.7	24.8	25.2	98	***	***	***
20	1005.0	27.5	25.6	24.5	25.2	98	***	***	***
21	1005.3	29.4#	26.3	25.1#	25.9	98	***	***	***
22	1007.6	32.0	29.1	26.6	25.6	82	***	***	***
23	1007.5	32.0	28.2	26.9	25.9	88	***	***	***
24	1006.1	31.4	28.1	26.0	26.0	88	***	***	***
25	1006.6	31.6	28.9	25.3	25.6	83	***	***	***
26	1008.2	31.8	29.2	27.1	26.0	83	***	***	***
27	1009.2	31.2	29.0	27.2	26.0	84	***	***	***
28	1010.0	32.4	29.4	27.1	25.4	80	***	***	***
29	1009.4	33.6	29.3	26.1	24.8	78	***	***	***
30	1007.7	32.7	28.8	25.7	25.2	81	***	***	***

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Services](#)[> Climate Watch](#)[> Climate Statistics](#)[> Climate Prediction](#)[> Climate Knowledge](#)[> Need More](#)[Information?](#)[> Global Climate](#)[Services](#)[> Other Useful Links](#)[Climate Forecast](#)[Climate Change](#)[El Nino and La Nina](#)[Earthquakes and](#)[Tsunamis](#)[Astronomy, Space](#)[Weather and](#)[Geomagnetism](#)[Time and Calendar](#)[Radiation Monitoring,](#)[Assessment and](#)[Protection](#)[Educational Resources](#)[Publications](#)[Back](#)

Daily Extract of Meteorological Observations , June 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	30.9	28.8	26.9	***	***	0.5	240	18.0
02	***	31.3	29.6	28.3	***	***	0.0	230	18.8
03	***	32.7	30.1	27.9	***	***	0.0	210	14.8
04	***	31.9	29.5	28.1	***	***	0.0	230	12.0
05	***	32.7	29.3	27.7	***	***	0.0	150	11.0
06	***	33.2	29.1	27.3	***	***	2.0	150	7.8
07	***	32.7	28.9	24.7	***	***	15.5	140	7.8
08	***	33.5#	29.5	27.0#	***	***	0.0	050	9.2
09	***	32.1	28.8	27.1	***	***	0.5	100	12.8
10	***	33.4	29.6	27.4	***	***	0.0	150	8.6
11	***	34.7#	30.1	27.3#	***	***	0.0	150	6.5
12	***	31.1	27.2	24.7	***	***	40.0	050	33.3
13	***	27.0	25.3	23.8	***	***	176.5	260	14.0
14	***	27.6#	26.4	23.3#	***	***	32.5	280	6.2
15	***	30.8#	27.9	26.2#	***	***	22.0	240	14.4
16	***	28.5#	27.4	25.3#	***	***	80.0	280	10.8
17	***	26.0#	24.9	24.0#	***	***	130.0	260	5.0
18	***	27.5	25.6	24.1	***	***	35.5	050	5.7
19	***	29.0#	25.8	24.7#	***	***	23.0	230	6.3
20	***	26.8	25.7	24.6	***	***	51.5	270	7.1
21	***	28.2	26.2	25.0	***	***	62.0	260	8.9
22	***	31.7	28.6	26.4	***	***	0.5	250	13.3
23	***	32.0#	28.1	26.3#	***	***	11.0	150	4.5
24	***	32.5	28.4	26.1	***	***	6.5	240	10.3
25	***	31.7#	28.9	26.1#	***	***	5.0	230	17.4
26	***	31.8	29.0	26.8	***	***	13.0	240	17.8
27	***	32.4#	29.1	27.1#	***	***	2.5	260	12.5
28	***	32.7#	29.5	27.2#	***	***	0.0	220	10.1
29	***	33.8	29.9	26.8	***	***	0.0	270	5.9
30	***	33.1	29.3	26.6	***	***	0.0	140	5.1

*** unavailable

data incomplete

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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Last revision date: <17 May 2017>

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Services](#)[> Climate Watch](#)[> Climate Statistics](#)[> Climate Prediction](#)[> Climate Knowledge](#)[> Need More](#)[Information?](#)[> Global Climate](#)[Services](#)[> Other Useful Links](#)[Climate Forecast](#)[Climate Change](#)[El Nino and La Nina](#)[Earthquakes and](#)[Tsunamis](#)[Astronomy, Space](#)[Weather and](#)[Geomagnetism](#)[Time and Calendar](#)[Radiation Monitoring,](#)[Assessment and](#)[Protection](#)[Educational Resources](#)[Publications](#)[Back](#)


Daily Extract of Meteorological Observations , July 2017 - Tai Po

 Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	1006.1	32.4	28.7	25.4	25.2	82	***	***	***
02	1005.8	29.0	27.0	25.6	26.2	96	***	***	***
03	1006.2	28.0	26.8	24.9	26.0	96	***	***	***
04	1008.5	27.5	25.7	25.0	25.4	98	***	***	***
05	1009.3	29.7	27.6	25.1	26.0	91	***	***	***
06	1008.1	28.5	26.6	25.2	25.8	95	***	***	***
07	1008.5	30.0	26.9	25.3	25.2	91	***	***	***
08	1010.0	27.8	26.3	25.0	26.1	98	***	***	***
09	1009.6	32.6	28.5	25.9	25.7	86	***	***	***
10	1008.5	32.4	28.8	25.7	25.0	81	***	***	***
11	1010.1	31.3	28.7	26.2	25.4	83	***	***	***
12	1011.1	31.7	28.7	26.7	25.6	84	***	***	***
13	1008.9	31.3	29.0	26.5	26.1	85	***	***	***
14	1007.8	30.4	28.4	26.4	25.8	86	***	***	***
15	1007.7	30.1	28.1	26.1	26.0	89	***	***	***
16	1007.9	29.2	27.4	25.5	25.9	92	***	***	***
17	1009.1	28.1	25.9	24.2	25.4	97	***	***	***
18	1011.4	28.1	25.4	24.0	25.0	98	***	***	***
19	1009.5	29.9	26.9	24.2	25.6	93	***	***	***
20	1008.8	30.1	28.2	26.6	26.2	89	***	***	***
21	1009.7	30.9	29.0	27.0	25.9	84	***	***	***
22	1009.0	31.9	28.9	25.6	25.5	82	***	***	***
23	1005.9	28.0	26.8	25.0	25.3	92	***	***	***
24	1005.8	28.8	27.0	25.3	26.0	95	***	***	***
25	1005.3	31.4	28.7	26.6	26.0	86	***	***	***
26	1004.3	32.1	28.6	25.7	25.3	83	***	***	***
27	1003.7	30.3	28.7	26.9	25.7	84	***	***	***
28	1003.8	32.9	30.1	28.1	25.3	76	***	***	***
29	1000.0	35.5	31.0	27.6	26.0	76	***	***	***
30	995.8	36.3	32.8	29.9	26.4	70	***	***	***
31	997.6	33.9	31.2	29.4	26.6	77	***	***	***

*** unavailable

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Last revision date: <17 May 2017>

[Home](#)[What's new](#)[About us](#)[HKO Side Lights](#)[Our Services](#)[Visitors Figures](#)[Press releases](#)[Weather Note \(Chinese\)](#)[Today's Weather](#)[Warnings](#)[Local Weather](#)[Observations](#)[Weather Forecast](#)[Weather Monitoring](#)[Imagery](#)[Computer Forecast](#)[Products](#)[MyObservatory](#)[Met on Map](#)[Tropical Cyclones](#)[Aviation Weather](#)[Services](#)[Marine Meteorological](#)[Services](#)[Weather Information for](#)[Sports](#)[Weather Information for](#)[Communities](#)[China Weather](#)[World Weather](#)[Climatological Information
Services](#)[> Climate Watch](#)[> Climate Statistics](#)[> Climate Prediction](#)[> Climate Knowledge](#)[> Need More](#)[Information?](#)[> Global Climate](#)[Services](#)[> Other Useful Links](#)[Climate Forecast](#)[Climate Change](#)[El Nino and La Nina](#)[Earthquakes and](#)[Tsunamis](#)[Astronomy, Space](#)[Weather and](#)[Geomagnetism](#)[Time and Calendar](#)[Radiation Monitoring,](#)[Assessment and](#)[Protection](#)[Educational Resources](#)[Publications](#)[Back](#)

Daily Extract of Meteorological Observations , July 2017 - Tai Mei Tuk

Year Month

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)					
01	***	33.1	29.0	25.6	***	***	14.0	240	9.0
02	***	30.7	27.4	25.9	***	***	25.0	280	6.1
03	***	28.2	26.9	25.0	***	***	50.5	050	8.1
04	***	29.1	26.0	24.6	***	***	33.0	050	9.6
05	***	31.2#	27.7	25.3#	***	***	20.5	080	18.7
06	***	29.3#	26.5	25.2#	***	***	20.0	070	13.8
07	***	30.1	26.7	25.3	***	***	21.5	140	11.0
08	***	28.8#	26.7	25.1#	***	***	55.0	050	6.6
09	***	32.2#	28.6	26.2#	***	***	9.0	240	8.1
10	***	32.8	28.9	26.1	***	***	0.0	150	5.2
11	***	33.5#	29.5	26.5#	***	***	0.0	050	7.3
12	***	32.9	29.0	26.6	***	***	1.0	050	6.9
13	***	33.2#	29.6	27.1#	***	***	0.0	080	12.5
14	***	32.4#	28.9	26.6#	***	***	3.0	090	13.8
15	***	30.5	27.8	26.1	***	***	9.5	080	20.3
16	***	28.8#	27.1	25.7#	***	***	17.0	070	27.8
17	***	29.9#	26.1	24.2#	***	***	207.0	050	15.7
18	***	28.5	25.5	23.4	***	***	307.5	040	14.2
19	***	31.1	27.3	24.4	***	***	14.0	060	9.9
20	***	30.4#	27.9	26.1#	***	***	8.0	090	15.8
21	***	31.6	28.7	26.6	***	***	11.5	080	18.8
22	***	32.6#	28.8	26.0#	***	***	1.0	070	10.3
23	***	28.5	26.8	25.2	***	***	27.0	020	20.4
24	***	29.7#	26.9	25.1#	***	***	38.0	050	12.5
25	***	32.0#	28.5	26.6#	***	***	0.0	060	9.9
26	***	33.3	29.1	26.3	***	***	0.0	090	6.4
27	***	31.2#	28.5	26.9#	***	***	0.0	040	16.1
28	***	33.9#	29.9	27.4#	***	***	0.0	040	14.0
29	***	35.2#	31.4	27.8#	***	***	0.0	040	4.7
30	***	36.2#	32.5	29.3#	***	***	0.0	260	10.3
31	***	33.7#	31.0	29.3#	***	***	0.0	260	19.2

*** unavailable

data incomplete

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**APPENDIX G
IMPACT DAYTIME CONSTRUCTION NOISE
MONITORING RESULTS AND THEIR
GRAPHICAL PRESENTATION**

Location : M2 (West Tai Wo - Free Field)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)	Exceedance (Y/N)
	Start Time	Leq*	L10*	L90*		
7-Apr-17	13:30	67.0	69.0	65.0	75	N
12-Apr-17	14:49	70.9	72.5	68.3	75	N
18-Apr-17	13:59	69.6	70.5	66.5	75	N
24-Apr-17	14:40	69.0	71.0	66.5	75	N
4-May-17	13:10	69.2	73.6	64.0	75	N
10-May-17	11:15	69.7	72.9	63.5	75	N
16-May-17	14:05	69.7	71.3	67.2	75	N
22-May-17	13:10	67.7	69.0	64.5	75	N
2-Jun-17	13:30	70.2	74.6	62.8	75	N
6-Jun-17	9:57	69.8	71.5	66.0	75	N
12-Jun-17	13:00	69.4	73.8	62.6	75	N
23-Jun-17	9:50	69.6	72.6	62.8	75	N
29-Jun-17	13:15	68.7	73.6	62.4	75	N
4-Jul-17	13:10	68.9	73.6	61.2	75	N
10-Jul-17	13:02	69.6	73.0	64.3	75	N
21-Jul-17	14:03	69.4	71.5	66.5	75	N
27-Jul-17	13:55	68.8	70.5	66.5	75	N
Minimum for May 17 to Jul 17		67.7	69.0	61.2		
Maximum for May 17 to Jul 17		70.2	74.6	67.2		
Average for May 17 to Jul 17		69.3	72.7	64.6		

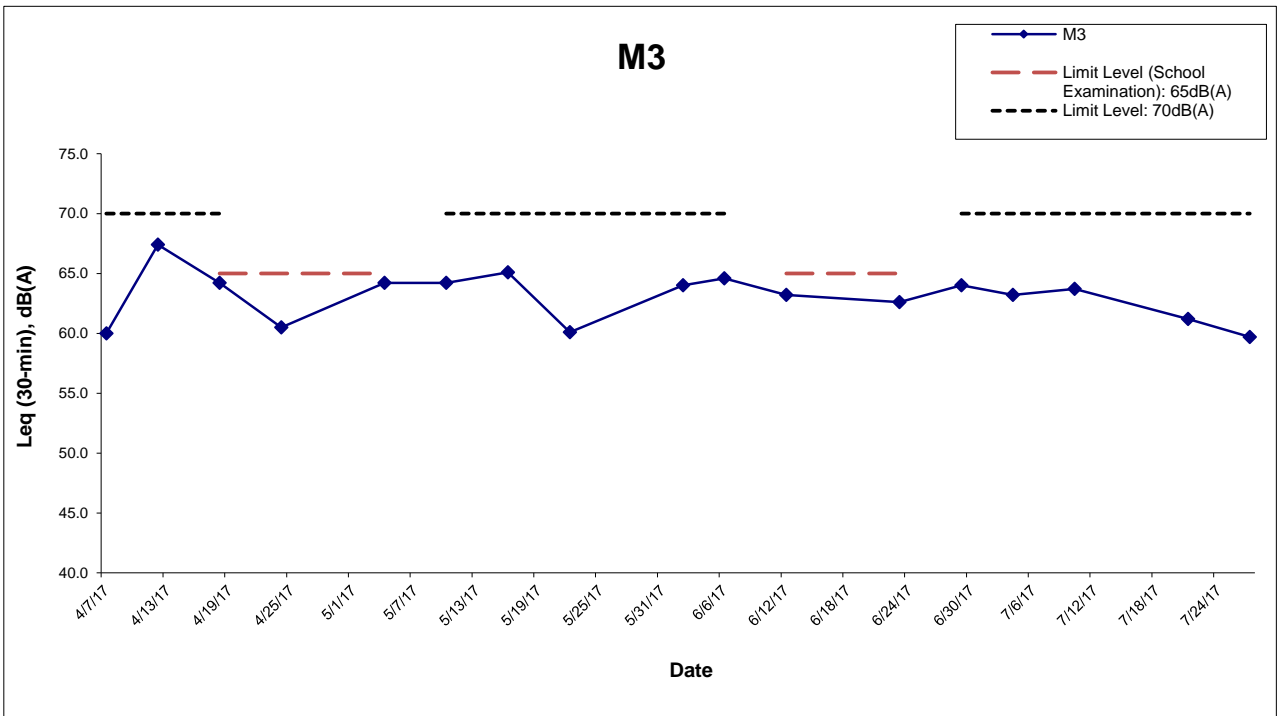
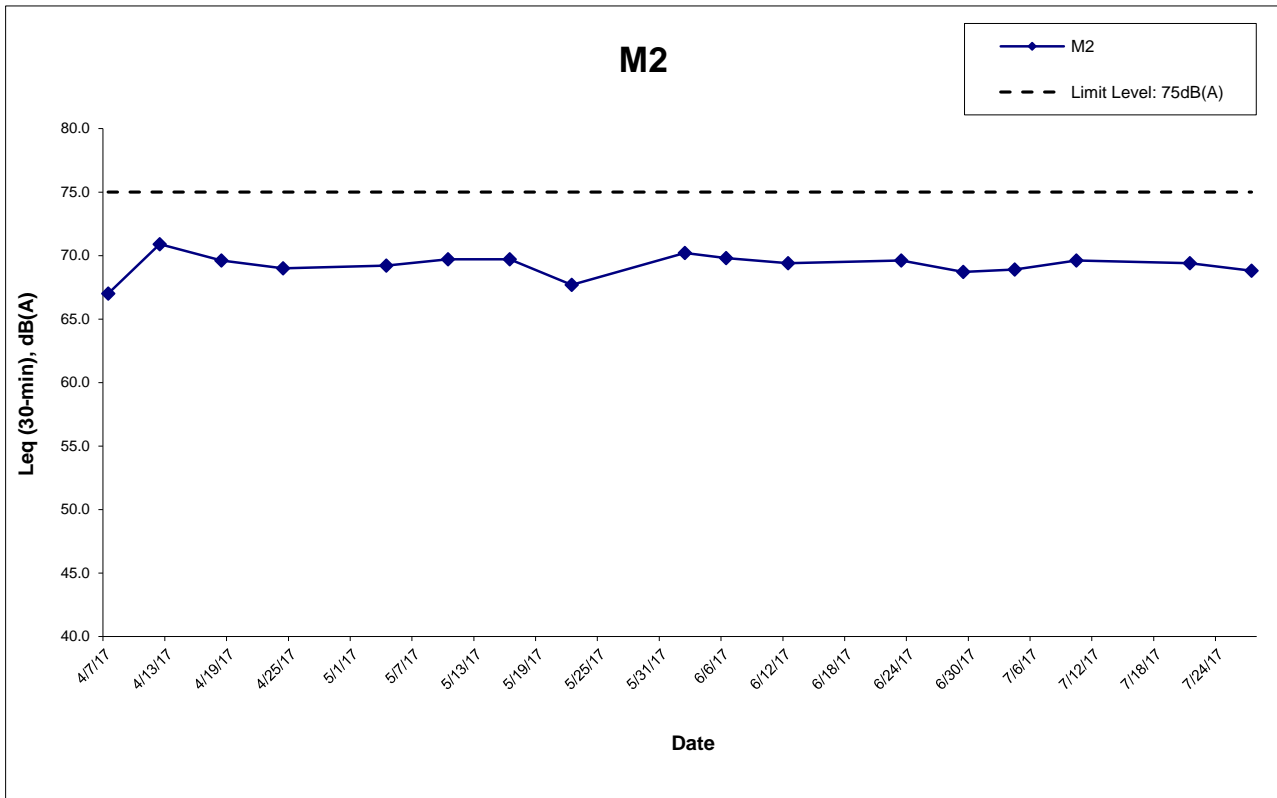
Location : M3 (Fanling Government Secondary School- Façade)

Day time 07:00-19:00 hrs Normal Weekdays Impact Noise Monitoring Results

Date	Measured Noise Level for 30-min, dB(A)				Limit Level, dB(A)^	Exceedance (Y/N)
	Start Time	Leq	L10	L90		
7-Apr-17	13:05	60.0	61.0	56.0	70	N
12-Apr-17	15:19	67.4	69.5	65.2	70	N
18-Apr-17	13:12	64.2	66.0	61.0	70	N
24-Apr-17	13:45	60.5	62.0	56.5	65	N
4-May-17	14:05	64.2	67.8	60.6	65	N
10-May-17	11:30	64.2	67.2	59.6	70	N
16-May-17	13:10	65.1	67.3	32.2	70	N
22-May-17	11:35	60.1	61.0	56.0	70	N
2-Jun-17	13:50	64.0	66.8	60.2	70	N
6-Jun-17	10:48	64.6	66.0	61.5	70	N
12-Jun-17	13:15	63.2	66.7	58.6	65	N
23-Jun-17	11:10	62.6	64.2	58.6	65	N
29-Jun-17	13:50	64.0	67.3	60.5	70	N
4-Jul-17	14:09	63.2	66.5	58.4	70	N
10-Jul-17	14:10	63.7	66.9	58.9	70	N
21-Jul-17	13:12	61.2	62.5	65.0	70	N
27-Jul-17	13:10	59.7	60.5	56.0	70	N
Minimum for May 17 to Jul 17		59.7	60.5	32.2		
Maximum for May17 to Jul 17		65.1	67.8	65.0		
Average for May 17 to Jul 17		63.3	66.0	59.8		

* +3dB(A) Façade effect correction included

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Remark:

^ Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.

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CONTRACT NO. HY/2012/06
 WIDENING OF FANLING HIGHWAY
 - TAI HANG TO WO HOP SHEK INTERCHANGE



Graphical Presentation of Impact Daytime Construction Noise
 Monitoring Results

Project No.: 60307376

Date: Aug-17

Appendix G

**APPENDIX H
STATISTICS ON COMPLAINTS,
NOTIFICATION OF SUMMONS AND
SUCCESSFUL PROSECUTIONS**

Appendix H

Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Contract No. HY/2012/06 – Widening of Fanling Highway – Tai Hang to Wo Hop Shek Interchange

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	19 December 2013	EPD referred a complaint from Lot no. 116 of Fui Sha Wai at Tai Hang of Tai Po which is concerned about the construction noise and diesel-like smell generated from construction activities nearby which caused nuisance and health problems on 19 December 2013 morning.	Closed	0	7
	24 February 2014	EPD referred an air-and-odour complaint on 24 February 2014. The complainant complained about the construction site located near the bus stop in Fui Sha Wai, Tai Hang, Tai Wo Service Road West. When construction works were carried out, odour, white smoke and dust were generated. The complainant asked for follow-up actions.	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
23 October 2014	<p>EPD referred an air complaint on 24 October 2014.</p> <p>A resident complained against the excavation works of Tai Wo Service Road West between Nam Wah Po & Tai Hang Tsuen, which have piled up high stockpiles, causing serious dust nuisance to his house.</p> <p>The resident also complained that the stockpiles have not been covered and watered properly. He now requires the EPD to follow up. The location of complaint is near Lamppost Location EB5717.</p>	Closed		
31 December 2014	<p>EPD referred a water complaint on 31 December 2014.</p> <p>The complainant complained about the muddy river outside Tai Hang Village Office on 29 December 2014. It was suspected that the muddy water was discharged from the construction works of the Project. He required the EPD to follow up.</p>	Closed		
25 March 2015	<p>EPD referred a water complaint on 25 March 2015.</p> <p>The complainant complained about the generation of the smell of gasoline from the Widening of Fanling Highway construction site on Tai Wo Service Road West, causing serious nuisance to nearby houses.</p> <p>The situation has continued for a few weeks and she asked the EPD to follow up as soon as possible.</p>	Closed		

Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
<p>5 January 2017 (Referred by the Contractor on 13 January 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 5 January 2017. The complaint was referred to the Environmental Team by the Contractor on 13 January 2017.</p> <p>The complainant complained against the dust emission generated by the Widening of Fanling Highway construction site on Tai Wo Service Road West near Tai Hang Village.</p> <p>The complainant also complained that Highway Department did not conduct road surface cleansing, which affects residents' health. He/she now requires the Highway Department to follow up.</p>	<p>Closed</p>		
<p>22 May 2017 (Referred by the Contractor on 23 May 2017)</p>	<p>A complaint was received by the 1823 enquiry and complaint hotline on 22 May 2017. The complaint was referred to the Environmental Team by the Contractor on 23 May 2017.</p> <p>A complainant complained that construction noise was caused by the erection of noise barrier on Tai Wo Service Road West near Tai Hang Village on Sunday(s).</p> <p>The complainant concerned about if any Construction Noise Permit is issued by the Environmental Protection Department.</p>	<p>Closed</p>		

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

Contract No. 02/HY/2015 – Provision of Bus-Bus Interchange on Fanling Highway Kowloon Bound

	Date Received	Subject	Status	Total no. followed up by the ET this month	Total no. followed up by the ET since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0